

Southeast Polk
Community School District

Math Curriculum
Grade 7

McDougal Littell Textbook Series

Updated June 2011

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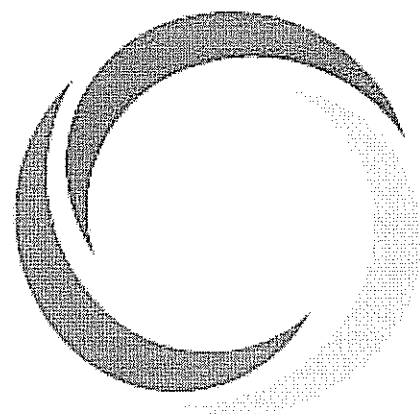
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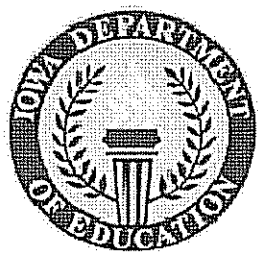
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I. Iowa Core

Iowa CORE



Mathematics



November 17, 2010

Mathematics | Grade 7

In Grade 7, instructional time should focus on four critical areas: (1) developing understanding of and applying proportional relationships; (2) developing understanding of operations with rational numbers and working with expressions and linear equations; (3) solving problems involving scale drawings and informal geometric constructions, and working with two- and three-dimensional shapes to solve problems involving area, surface area, and volume; and (4) drawing inferences about populations based on samples.

(1) Students extend their understanding of ratios and develop understanding of proportionality to solve single- and multi-step problems. Students use their understanding of ratios and proportionality to solve a wide variety of percent problems, including those involving discounts, interest, taxes, tips, and percent increase or decrease. Students solve problems about scale drawings by relating corresponding lengths between the objects or by using the fact that relationships of lengths within an object are preserved in similar objects. Students graph proportional relationships and understand the unit rate informally as a measure of the steepness of the related line, called the slope. They distinguish proportional relationships from other relationships.

(2) Students develop a unified understanding of number, recognizing fractions, decimals (that have a finite or a repeating decimal representation), and percents as different representations of rational numbers. Students extend addition, subtraction, multiplication, and division to all rational numbers, maintaining the properties of operations and the relationships between addition and subtraction, and multiplication and division. By applying these properties, and by viewing negative numbers in terms of everyday contexts (e.g., amounts owed or temperatures below zero), students explain and interpret the rules for adding, subtracting, multiplying, and dividing with negative numbers. They use the arithmetic of rational numbers as they formulate expressions and equations in one variable and use these equations to solve problems.

(3) Students continue their work with area from Grade 6, solving problems involving the area and circumference of a circle and surface area of three-dimensional objects. In preparation for work on congruence and similarity in Grade 8 they reason about relationships among two-dimensional figures using scale drawings and informal geometric constructions, and they gain familiarity with the relationships between angles formed by intersecting lines. Students work with three-dimensional figures, relating them to two-dimensional figures by examining cross-sections. They solve real-world and mathematical problems involving area, surface area, and volume of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes and right prisms.

(4) Students build on their previous work with single data distributions to compare two data distributions and address questions about differences between populations. They begin informal work with random sampling to generate data sets and learn about the importance of representative samples for drawing inferences.

Grade 7 Overview

Ratios and Proportional Relationships

- Analyze proportional relationships and use them to solve real-world and mathematical problems.

The Number System

- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.

Expressions and Equations

- Use properties of operations to generate equivalent expressions.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.

Geometry

- Draw, construct and describe geometrical figures and describe the relationships between them.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.

Statistics and Probability

- Use random sampling to draw inferences about a population.
- Draw informal comparative inferences about two populations.
- Investigate chance processes and develop, use, and evaluate probability models.

Mathematical Practices

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

Ratios and Proportional Relationships

7.RP

Analyze proportional relationships and use them to solve real-world and mathematical problems.

1. Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units. *For example, if a person walks $\frac{1}{2}$ mile in each $\frac{1}{4}$ hour, compute the unit rate as the complex fraction $\frac{1/2}{1/4}$ miles per hour, equivalently 2 miles per hour.*
2. Recognize and represent proportional relationships between quantities.
 - a. Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin.
 - b. Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.
 - c. Represent proportional relationships by equations. *For example, if total cost t is proportional to the number n of items purchased at a constant price p , the relationship between the total cost and the number of items can be expressed as $t = pn$.*
 - d. Explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points $(0, 0)$ and $(1, r)$ where r is the unit rate.
3. Use proportional relationships to solve multistep ratio and percent problems. *Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error.*

The Number System

7.NS

Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.

1. Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram.
 - a. Describe situations in which opposite quantities combine to make 0. *For example, a hydrogen atom has 0 charge because its two constituents are oppositely charged.*
 - b. Understand $p + q$ as the number located a distance $|q|$ from p , in the positive or negative direction depending on whether q is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by describing real-world contexts.
 - c. Understand subtraction of rational numbers as adding the additive inverse, $p - q = p + (-q)$. Show that the distance between two rational numbers on the number line is the absolute value of their difference, and apply this principle in real-world contexts.
 - d. Apply properties of operations as strategies to add and subtract rational numbers.

2. Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.
 - a. Understand that multiplication is extended from fractions to rational numbers by requiring that operations continue to satisfy the properties of operations, particularly the distributive property, leading to products such as $(-1)(-1) = 1$ and the rules for multiplying signed numbers. Interpret products of rational numbers by describing real-world contexts.
 - b. Understand that integers can be divided, provided that the divisor is not zero, and every quotient of integers (with non-zero divisor) is a rational number. If p and q are integers, then $-(p/q) = (-p)/q = p/(-q)$. Interpret quotients of rational numbers by describing real-world contexts.
 - c. Apply properties of operations as strategies to multiply and divide rational numbers.
 - d. Convert a rational number to a decimal using long division; know that the decimal form of a rational number terminates in 0s or eventually repeats.
3. Solve real-world and mathematical problems involving the four operations with rational numbers.¹

Expressions and Equations

7.EE

Use properties of operations to generate equivalent expressions.

1. Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients.
2. Understand that rewriting an expression in different forms in a problem context can shed light on the problem and how the quantities in it are related. *For example, $a + 0.05a = 1.05a$ means that "increase by 5%" is the same as "multiply by 1.05."*

Solve real-life and mathematical problems using numerical and algebraic expressions and equations.

3. Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies. *For example: If a woman making \$25 an hour gets a 10% raise, she will make an additional $1/10$ of her salary an hour, or \$2.50, for a new salary of \$27.50. If you want to place a towel bar $9\frac{3}{4}$ inches long in the center of a door that is $27\frac{1}{2}$ inches wide, you will need to place the bar about 9 inches from each edge; this estimate can be used as a check on the exact computation.*
4. Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities.
 - a. Solve word problems leading to equations of the form $px + q = r$ and $p(x + q) = r$, where p , q , and r are specific rational numbers. Solve equations of these forms fluently. Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used in each approach. *For example, the perimeter of a rectangle is 54 cm. Its length is 6 cm. What is its width?*
 - b. Solve word problems leading to inequalities of the form $px + q > r$ or $px + q < r$, where p , q , and r are specific rational numbers. Graph the solution set of the inequality and interpret it in the context of the problem. *For example: As a salesperson, you are paid \$50 per week plus \$3 per sale. This week you want your pay to be at least \$100. Write an inequality for the number of sales you need to make, and describe the solutions.*

¹ Computations with rational numbers extend the rules for manipulating fractions to complex fractions.

Geometry

7.G

Draw, construct, and describe geometrical figures and describe the relationships between them.

1. Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.
2. Draw (freehand, with ruler and protractor, and with technology) geometric shapes with given conditions. Focus on constructing triangles from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no triangle.
3. Describe the two-dimensional figures that result from slicing three-dimensional figures, as in plane sections of right rectangular prisms and right rectangular pyramids.

Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.

4. Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.
5. Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure.
6. Solve real-world and mathematical problems involving area, volume and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.

Statistics and Probability

7.SP

Use random sampling to draw inferences about a population.

1. Understand that statistics can be used to gain information about a population by examining a sample of the population; generalizations about a population from a sample are valid only if the sample is representative of that population. Understand that random sampling tends to produce representative samples and support valid inferences.
2. Use data from a random sample to draw inferences about a population with an unknown characteristic of interest. Generate multiple samples (or simulated samples) of the same size to gauge the variation in estimates or predictions. *For example, estimate the mean word length in a book by randomly sampling words from the book; predict the winner of a school election based on randomly sampled survey data. Gauge how far off the estimate or prediction might be.*

Draw informal comparative inferences about two populations.

3. Informally assess the degree of visual overlap of two numerical data distributions with similar variability's, measuring the difference between the centers by expressing it as a multiple of a measure of variability. *For example, the mean height of players on the basketball team is 10 cm greater than the mean height of players on the soccer team, about twice the variability (mean absolute deviation) on either team; on a dot plot, the separation between the two distributions of heights is noticeable.*
4. Use measures of center and measures of variability for numerical data from random samples to draw informal comparative inferences about two populations. *For example, decide whether the words in a chapter of a seventh-grade science book are generally longer than the words in a chapter of a fourth-grade science book.*

Investigate chance processes and develop, use, and evaluate probability models.

5. Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring. Larger numbers indicate greater likelihood. A probability near 0 indicates an unlikely event, a probability around $\frac{1}{2}$ indicates an event that is neither unlikely nor likely, and a probability near 1 indicates a likely event.
6. Approximate the probability of a chance event by collecting data on the chance process that produces it and observing its long-run relative frequency, and predict the approximate relative frequency given the probability. *For example, when rolling a number cube 600 times, predict that a 3 or 6 would be rolled roughly 200 times, but probably not exactly 200 times.*
7. Develop a probability model and use it to find probabilities of events. Compare probabilities from a model to observed frequencies; if the agreement is not good, explain possible sources of the discrepancy.
 - a. Develop a uniform probability model by assigning equal probability to all outcomes, and use the model to determine probabilities of events. *For example, if a student is selected at random from a class, find the probability that Jane will be selected and the probability that a girl will be selected.*
 - b. Develop a probability model (which may not be uniform) by observing frequencies in data generated from a chance process. *For example, find the approximate probability that a spinning penny will land heads up or that a tossed paper cup will land open-end down. Do the outcomes for the spinning penny appear to be equally likely based on the observed frequencies?*
8. Find probabilities of compound events using organized lists, tables, tree diagrams, and simulation.
 - a. Understand that, just as with simple events, the probability of a compound event is the fraction of outcomes in the sample space for which the compound event occurs.
 - b. Represent sample spaces for compound events using methods such as organized lists, tables and tree diagrams. For an event described in everyday language (e.g., "rolling double sixes"), identify the outcomes in the sample space which compose the event.
 - c. Design and use a simulation to generate frequencies for compound events. *For example, use random digits as a simulation tool to approximate the answer to the question: If 40% of donors have type A blood, what is the probability that it will take at least 4 donors to find one with type A blood?*

II. Best Practices List for the Math Classroom

Components of Effective Mathematics Instruction (K-8)

What I should see in a mathematics classroom:

- _____ Mental math activities (5 min. then explain thinking) DAILY
- _____ Daily math review (5 min. quickly at the start of class) 2-5 times per week
- _____ Concept previews (skill based; intro to the curriculum)
- _____ Concept probes (1 problem/concept) every 2-3 days
- _____ Concept reviews (use previews again after teaching the skill)
- _____ Problem solving tasks - begin and end every unit
- _____ Multiple problem solving strategies encouraged
- _____ Students interacting via whole group, small group, and/or pairs (students communicating)
- _____ Good questions - clarifying, redirecting, summarizing, extending, reflecting (students communicating)
- _____ Students sharing solutions (students communicating)
- _____ Students justifying answers - orally and/or in writing (students communicating)
- _____ Active participation by all students (tracking - move toward heterogeneous grouping; peer help)
- _____ High expectations communicated (increase time spent on math; can be done any time during the day)
- _____ Assessment incorporated throughout the lesson (white boards, questioning, show answer on hands)
- _____ Appropriate mathematics terminology utilized
- _____ Manipulatives present and used by students/teacher
- _____ Technology present and used by students/teacher
- _____ Displays of students' work
- _____ Concept wall (reference on wall for kids with disabilities)
- _____ Exemplars - Problem solving
- _____ Thinking with numbers - assessing basic facts
- _____ Estimating - emphasize as much as possible
- _____ No touch points - providing manipulatives that can't be taken away; use calculator instead

As provided by Larry Osthus

III. Instructional Plans & Assessments

Grade 7 McDougal Littell Math (Pre-Algebra)

<i>Pacing Guide</i>		<i>Instructional Plans</i>		<i>Common Core</i>
<i>Week</i>		<i>Chapter</i>	<i>Sections</i>	<i>Standards</i>
1	Variables, Expressions, Integers	1	1,2,3	NS.1-3; SP.4
2		1	4,5	
3		1	6,7	
4		1	8	
5	Solving Equations	2	1,2	NS.2,3; EE.1,4
6		2	3,4	
7		2	5,6	
8		2	7	
9	Multi-step Equations & Inequalities	3	1,2	NS.1-3; EE.4
10		3	3,4	
11		3	5,6	
12		3		
13	Rational Numbers & Equations	5	1,2	NS.2,3
14		5	3,4	
15		5	5,6	
16		5	7	
17	Ratio, Proportion, & Probability	6	1,2,3	G.1; SP.5-8, RP.1
18		6	4,5,6	
19		6	7,8	
20		6	Scale Drawings	
21	Percents	7	1,2,3	RP.3; EE.2-4
22		7	4,5,6	
23	Preview/Review Week	7		
24	ITBS Testing			
25	Linear Functions	8	1,2,3	RP.2
26		8	4,5	
27		8	6	
28	Measurement, Area, Volume	10	1,2,3	G.4,6
29		10	4,5,6	
30		10	7,8	
31	Data Analysis & Probability	11	1,2,3	SP.1-3,8
32		11	4,5,6	
33		11	7,8,9	
34	Angle Relationships & Transformations	11		G.2,5
35		13	1,2,3	
36		13	4,5,6	
37		13	7,8	
38		13		

Weekly Reviews/Previews:

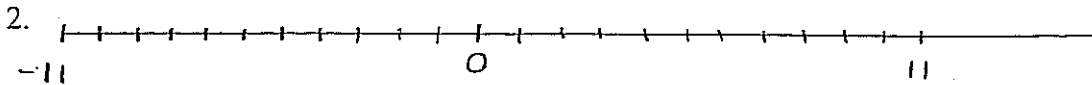
*Linear Functions**Measurement, Area, Volume**Data Analysis & Probability**Angle Relationships & Transformations*

Revised 7/28/11

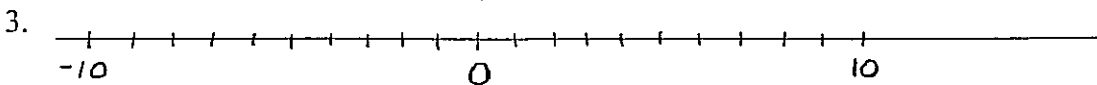
Chapter 1 Test
(PA7) **60 points**

Name _____
Class Period _____

1. The integers -5, 10, -3, and -8 represent yards gained or lost by a football team after four downs. Find the sum total. (2 pts.) _____



Use the number line above to represent the sum of $-4 + 7$ (2 pts.)



Use the number line above to represent the difference of $-3 - 2$ (2 pts.)

Evaluate the following expressions when $a = -8$ Show work (2 pts.)

4. $a - 4 =$ _____

5. $6 + a =$ _____

6. A golfer scores +2, or two over par, for round one and -2, or two under par, for round two. He is now at even, or zero, after two rounds of play. Describe another situation where opposite quantities combine to make zero.

Evaluate the following expressions (1 pt.)

7. $-25 + 25 =$ _____

8. $-17 +$ _____ $= 0$

9. Rewrite the following as an **addition sentence**. $-18 - 7 =$ _____

10. At 6:00 a.m., the temperature was -3°C . By 2:00 p.m., the temperature had risen 15°C . What was the temperature at 2:00 p.m.? (2 pts.) _____

11. Find the difference of an elevation of 20 feet below sea level and an elevation of 106 above sea level. (2 pts.) _____

Chapter 1 Test
(PA7) Pg. 2

Evaluate the following expressions (2 pts.)

12. $15 - 2 \cdot 3 =$ _____

13. $\frac{12 - 4}{2} =$ _____

Evaluate the following expressions when $t = 10$ (2 pts.)

14. $3t + 5 =$ _____

15. $20 - t \div 2 =$ _____

16. $2(t - 4) =$ _____

17. You own 300 shares of stock in a computer company. If the value of each share increased by \$4, how much money did you make or lose? (3 pts.) _____

18. You own 150 shares of stock in a utility company. If the value of each share decreased by \$2, how much money did you make or lose? (3 pts.) _____

19. A MIR submersible is a type of submarine. As a MIR dives, its elevation changes by -100 feet per minute. What would its elevation be after 30 minutes? (3 pts.) _____

20. In the expression $86 \div x$, what number can x not represent, and why? (2 pts.) _____

Evaluate the following expressions (1 pt.)

21. $(-4)(-8) =$ _____

22. $-1 \cdot 15 =$ _____

23. $40 \div -5 =$ _____

24. $-18 \div (-9) =$ _____

25. The formula for volume of a cube is $V = S^3$. An aquarium has a square base with a side length of 12 inches. Find the volume of the water in the aquarium if you fill it with water to a height of 12 inches. (3 pts.) _____

Chapter 1 Test
(PA7) Pg. 3

26. Evaluate the expression m^4 when $m = 0.2$ (2 pts.)

Evaluate each expression when $a = -7$ and $b = 9$ (2 pts.)

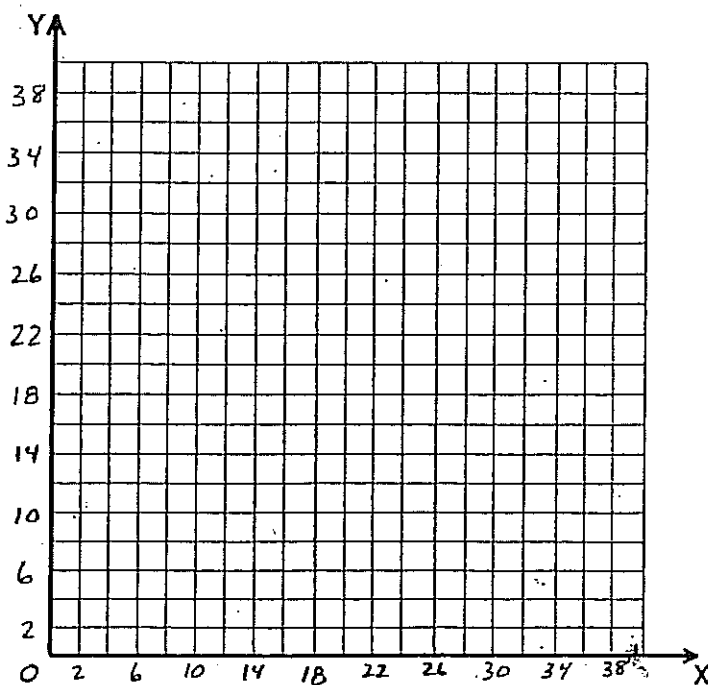
27. $|a| + |b|$

28. $-a + (-b)$

29. $-|a|$

30. The table gives the ages and heights of 9 pine trees. Make a scatter plot of the data. Does it suggest any relationship between the age and height of the trees? Explain. (5 pts.)

Age (years)	1	5	10	13	19	23	28	35	39
Height (feet)	2	5	7	13	16	24	32	35	35

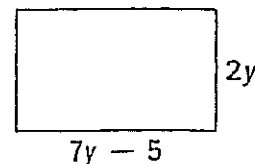


Chapter 2 Test
(PA7) 50 Points

Name _____
Class Period _____

Show work on all problems! 2 points each (1-work, 1-correct answer)

1. During the summer you work 8 hours each day detassling corn and earn \$8 an hour. Use properties of multiplication to find how much money you earn during a 5 day work week. _____
2. The perimeter of a rectangle is 54 cm. Its length is 6 cm. What is its width? _____
3. A surveyor measures the depth of a river at three different points and obtains depths of 5.8 meters, 9.2 meters, and 7.4 meters. Use properties of addition to find the sum of the surveyor's measurements. _____
What is the mean depth of the river? _____
4. There are two squares. Square A has side lengths of 2 ft. Square B has side lengths of 4 ft. Find the area of each square. A = _____ B = _____
Explain how the areas of the squares are related.
5. A rectangle has side lengths of $2y$ and $7y - 5$. Use the distributive property to find the area of the rectangle.

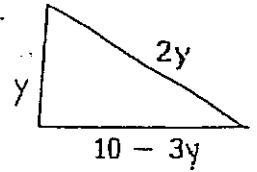


Use the distributive property to simplify

6. $2(z + 8) =$ _____
7. $(5 - a)(-7) =$ _____
8. $-6(3y - 1) =$ _____

Chapter 2 Test
(PA7) Pg. 2

9. A triangular garden has sides measuring y , $2y$, and $10-3y$ feet. Find the perimeter of the garden to determine how much fencing will be needed to enclose it.



10. You are making a rectangular blanket. You want the blanket to be three times as long as it is wide. Let w represent the width of the blanket. Write an expression in terms of w for the perimeter of the blanket.
11. In your aquarium, you have angelfish and swordtails. You have a total of 30 fish. If you have x number of angelfish, how many swordtails do you have?

Simplify the following expressions

12. $4k - 10 - k =$ _____

13. $-12 - w + 20 =$ _____

14. $-3(2y - 9) =$ _____

15. $6r - 10(4r - 8) =$ _____

16. The dragonfly's main source of food is the mosquito. A dragonfly can eat as many as 300 mosquitoes in a single day. Write an expression to show how many mosquitoes can be eaten in d days.
17. A company had a total of c employees. The company hired 140 employees, and 62 employees left for other reasons. Write an expression to show how many employees still work at the company.
18. Describe a real-life problem that can be solved using the equation $5x = 40$. Then solve the problem.

Chapter 2 Test
(PA7) Pg. 3

19. A rectangular room has a side length of 14 ft and an area of 98 ft². Write and solve an equation to find the width of the room.

Solve the following equations

20. $r + 5 = -1$

21. $8.2 = c - 4.6$

22. $-0.52y = -0.13$

23. $\frac{h}{4} = -16$

Tell whether the given value of the variable is a solution of the equation

24. $16 - u = -4$ when $u = 20$

25. $\frac{w}{-6} = 7$ when $w = 42$

Chapter 3 Test
(PA7) 50 points

Name _____
Class Period _____

Show work on all problems! 2 points each (1-work, 1-correct answer)

1. Your class is raising money for a hunger relief organization. The organization provides farm animals that people can use to produce food. One heifer (a young cow) costs \$600, and **each** flock of chicks costs \$25. Your class bought one heifer and c flocks of chicks. Write an expression to show the total spent.
2. Using your expression from #1, write an equation of how many chicks the class could buy if the amount they spend equals \$1000. Then solve.
3. A train consists of 50 cars and one locomotive. The locomotive weighs 150 tons. **Each** car weighs t tons. Write an expression to show how much the train weighs in all.
4. Using your expression from #3, write an equation of how much each car weighs if the total weight of the train equals 4650 tons. Then solve.

Solve the equation

5. $40 = 2x - 8$

6. $-4(x - 9) = -8$

7. $\frac{m}{3} + 16 = 20$

8. $19h - 7 = 33 + 14h$

9. $7 + w - 10 = 2w$

10. $30g = 6(5g + 2)$

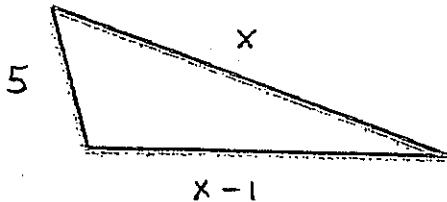
Chapter 3 Test
(PA7) pg. 2

Write the verbal sentence as an equation.

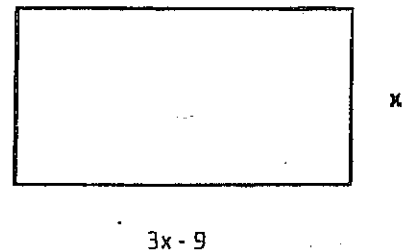
11. The product of 9 and a number plus 17 equals -1.

12. Ten plus 6 times a number is equal to 5 less than the number.

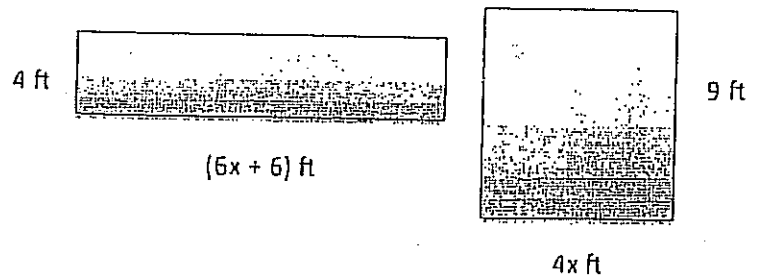
13. A triangular garden has sides of 5 ft., x , and $x - 1$. If the perimeter of the garden is 24 feet, what does x equal?



14. A rectangular sandbox has a perimeter of 22 feet. The length measures x and the width is $3x - 9$. What does x equal?

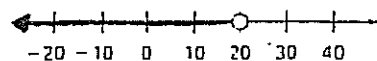


15. Two rugs shown use the same amount of material because they have equal areas. Find the value of x .

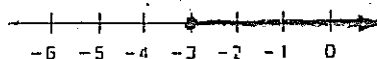


Write an inequality represented by the number line

16. _____



17. _____

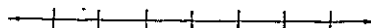


Chapter 3 Test
(PA7) pg. 3

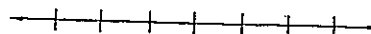
18. A family of four people spends a total of \$16 on fishing licenses and x amount of dollars on **each** fishing pole. Assuming they buy 4 identical poles, write an expression to show the total amount of money spent.
19. Using your expression from #18, write an inequality for what is the most (use \geq or \leq) they could spend on each pole if they only had \$124? Then solve.
20. As a salesperson at a clothing store, you are paid \$50 per week plus \$3 **per** sale. This week you want your pay to be at least \$100. Write an inequality for the number of sales you need to make, then solve.

Solve the inequality. Graph your solution on the number line.

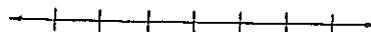
21. $x - 8 > 6$



22. $\frac{t}{2} > -15$



23. $2m + 7 \leq 9 + m$



Write the verbal sentence as an inequality.

24. Five plus a number is at least 16 _____

25. Six times a number is less than -18 _____

Chapter 5 Test
(PA7) 50 points

Name _____
Class Period _____

1. Four fifths of the students wore short sleeved shirts on Monday. Use long division to demonstrate how to write this as a decimal. (*Show work - 2 pts.*)

2. Mr. Smyth's class ordered 5 pizzas. The class ate 4 and $\frac{3}{8}$ pizzas. What is this as a decimal? (*Show work - 2 pts.*)

3. What is a rational number? (*1 pt.*)

4. When you convert a rational number to a decimal using long division, what are the two indicators when to stop dividing? (*2 pts.*)

5. You saw 0.45 meters of rope on the ground. What is this as a fraction? (*1 pt.*)

6. The toddler lost 2.013 pounds. (-2.013) What is this as a fraction? (*1 pt.*)

7. You cut $\frac{1}{6}$ feet of ribbon and $\frac{5}{6}$ feet of ribbon. How much ribbon did you cut in all? (*1 pt.*)

Find the sum or difference. (2 pts.)

8. $\frac{7}{15} - \frac{13}{15}$ _____

9. $10\frac{7}{16} - 2\frac{3}{16}$ _____

Chapter 5 Test
(PA7) pg. 2

Simplify the expression. Show work! (2 pts.)

10. _____ $\frac{-3n}{19} - \frac{4n}{19}$

11. _____ $\frac{26}{15n} + \left(-\frac{8}{15n}\right)$

Simplify the sum or difference. Show work! (3 pts.)

12. _____ $\frac{5}{8} - \frac{3}{4}$

13. _____ $-6\frac{2}{3} - 4\frac{3}{5}$

Evaluate the expression: $y - x$ when $x = \frac{-3}{8}$ and $y = \frac{7}{12}$. Show work! (2 pts.)

14. _____

15. You walk every day as part of your exercise regimen. Yesterday, you walked $\frac{3}{4}$ of a mile, and today you walked $1\frac{1}{2}$ miles. What is the total number of miles you walked both days? *Show work! (2 pts.)*

Find the product or quotient. Show work! (3 pts.)

16. _____ $-\frac{4}{5} \cdot \frac{3}{4}$

17. _____ $1\frac{1}{2} \cdot 5\frac{1}{5}$

18. _____ $-\frac{13}{16} \div \left(-\frac{7}{24}\right)$

19. _____ Our rain barrel has a leak. It leaks $\frac{2}{3}$ inches of water each day. If it currently holds $6\frac{4}{15}$ inches of water, in how many days will it be empty?

Chapter 5 Test
(PA7) pg. 3

Solve the equation. Show work! (2 pts.)

20. _____ $-\frac{3}{7}c = -6$

21. _____ $\frac{3}{4}w = -\frac{1}{2}$

Solve the equation or inequality. Show work! (3 pts.)

22. _____ $\frac{1}{2}t + \frac{5}{12} = \frac{5}{6}$

23. _____ $\frac{2}{5}k - \frac{4}{15} \geq -\frac{2}{3}$

Chapter 6 Test (Part A)
(PA7) A=29, B=21 = **50 points**
Sections 1-6
Please show work. (2 pts.)

Name _____
Class Period _____

1. _____ Cecilia typed 186 words in 3 minutes. Calculate the unit rate to determine how many words she can type in one minute.
2. _____ The football team had 28 total wins in 4 seasons during regular season play. Calculate the unit rate of wins per season.
3. _____ If a person walks $\frac{1}{2}$ a mile every $\frac{1}{4}$ of an hour, calculate the unit rate for miles per hour.
4. _____ If a rocket travels 40 miles per minute, how far can it travel in an hour?

For each of the following set up a proportion, then solve. (3 pts.)

5. At her daughter's birthday party last year, Susan ordered 45 cupcakes for 27 guests. Write and solve a proportion to find the number of guests expected if she is only ordering 15 cupcakes this year.

_____ = _____

6. You know that 3 pizzas are enough to feed 12 people. Write and solve a proportion to find the number of pizzas that will feed 40 people.

_____ = _____

7. You are reading a book. It took you 4 days to read the first 104 pages. If you continue to read at the same rate each day, how many days will it take you to read the remaining 468 pages?

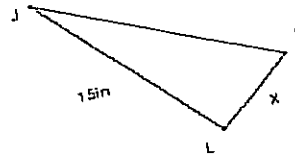
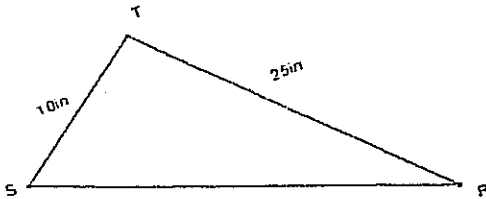
_____ = _____

Chapter 6 Test (Part A)

(PA7) pg. 2

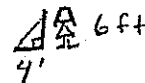
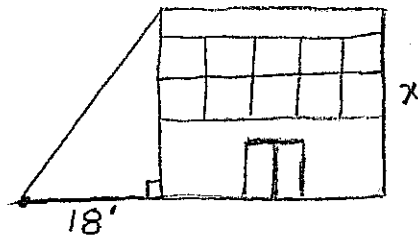
8. Given $\triangle JKL \sim \triangle RST$, find KL (3 pts.)

_____ = _____



9. A firefighter needs to get to the top of a building, but doesn't know which ladder to use. The building casts a shadow 18 feet long. A woman standing near the building is 6 feet tall and casts a shadow 4 feet long. How tall is the building? (3 pts.)

_____ = _____



10. A scale drawing of a basketball court has a scale of 1 inch : 10 feet. The actual basketball court is 94 feet long by 50 feet wide. Compute what the dimensions of the court would be in the scale drawing. Remember to label your answer. (3 pts.)

_____ = _____

11. Using the basketball court from #10, find the area of the actual basketball court and the area of the scale drawing. Remember to label your answers. **Explain** what you notice about the relationship between the two measurements. (3 pts.)

_____ Actual area

_____ Scale drawing area

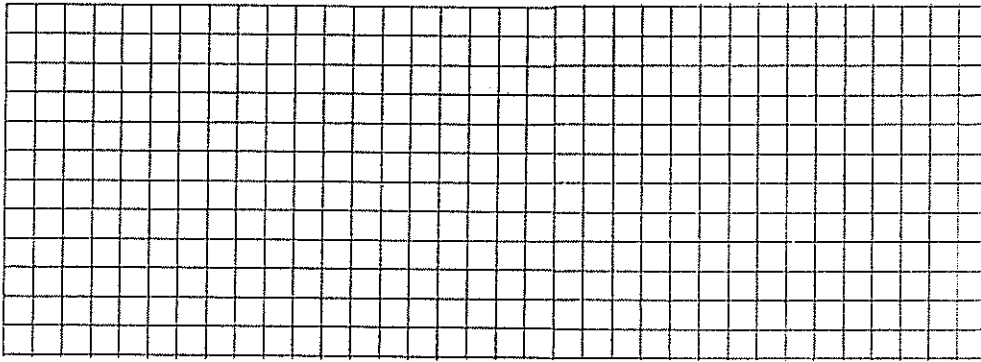
Explain:

Chapter 6 Test (Part B)
(PA7) Pg. 3
Sections 6-8

Name _____
Class Period _____

12. _____ A map has a scale of 1 inch : 30 miles. If two towns are 105 miles apart, how far apart will they be on the map? (1 pt.)

13. A house's deck is a 15 foot by 12 foot rectangle. Draw a scale model of the deck using the scale 1 cm : 3 feet (Assume each square is 1cm by 1cm) (2 pts.)



Use a number between 0 and 1 inclusively to answer the following. (1 pt.)

14. _____ If you roll two dice, what is the probability that the sum equals 13?
15. _____ If you roll two dice, what is the probability that the sum is greater than one?
16. Describe a real-life situation where the probability is $\frac{1}{2}$.

Miss Henderson's math class has 14 boys and 15 girls. She has a cup of sticks with students' names on them. She pulls a stick to call on a student to share his/her answer.

17. _____ What is the probability she will choose a boy's name? (1 pt.)
18. _____ What is the probability she will choose Karen, who is a girl in the class? (1 pt.)
19. Johnny flipped a coin 100 times. The results were Heads 45, Tails 55. What would you predict the results to be after 1000 coin tosses? Why? (2 pts.)

Chapter 6 Test (Part B)
(PA7) pg. 4

Choose between *unlikely*, *likely*, or *neither unlikely or likely (equally likely)* (1 pt.)

20. _____ A man being 8 feet tall.
21. _____ A couple's first born child is a girl.
22. _____ A flipped coin lands on tails.
23. _____ When rolling two dice, the product is less than 40.
24. _____ Someone from SE Polk winning the lottery.
25. _____ A hat containing the numbers 1-10, you draw out an even number.
26. _____ A hat containing the numbers 1-10, you draw out a number greater than 1.
27. A combination lock has 20 numbers on it. To open the lock you need to turn the dial right to the first number, left to the second number, and right to the third number. Use the counting principle to calculate the probability you would choose the correct combination on your first try. (2 pts.)
28. You have 6 shirts and 4 pairs of pants. List all possible combinations using a list, table or tree diagram. How many different outfits do you have in all? (2 pts.)

Chapter 7 Test
(PA7) 50 pts.

Name _____
Class Period _____

Fill in the chart with the correct fraction, decimal, or percent. Remember to reduce!

(1 pt. each) **You must show work on all problems!!! And labels!!!**

	Fraction	Decimal	Percent
1	$\frac{2}{5}$		
2		0.04	
3			326%

4. _____ What is 40% of 5? (1 pt.)

5. _____ What is 180% of 65? (1 pt.)

6. _____ Your annual income is \$24,000. Last year you spent 22% of your income on rent. How much did you spend on rent last year? (3 pts.)

Use a proportion or the percent equation to answer the following. (3 pts.)

7. _____ 5% of 80 students surveyed said their favorite sport is rock climbing. How many students chose rock climbing?

8. _____ The art teacher displayed 90 works of art. 15 were in black and white. What percent were in black and white?

9. _____ 50% of the teachers at Walton Jr. High participated in Backwards Day. 35 teachers participated. How many teachers are at Walton Jr. High?

Chapter 7 Test

(PA7) pg. 2

Identify the percent change as an increase or decrease. Then find the percent of change. (4 pts.)

10. _____ The dress originally cost \$90 on Monday. Then the price was marked \$54 on Friday. By what percent did the cost increase or decrease from Monday to Friday?

11. _____ At 1:20 p.m. the balloon was originally at an elevation of 120 feet. At 2:00 p.m. the balloon's elevation was 144 feet. By what percent did the elevation increase or decrease from 1:20 to 2:00?

12. _____ Each year, your school organizes a carnival to raise money for a class trip. This year, a total of 1026 people attended the carnival. Last year, a total of 950 people attended the carnival. By what percent did the attendance increase or decrease from last year to this year?

Use the given information to find the new amount. (3 pts.)

13. _____ The wholesale price of the Puma tennis shoes was \$88. The store had a markup of 50%. Find the new price of the shoes.

14. _____ The original price for the fish bowl was \$15. The price was discounted 20%. Find the new price of the fish bowl.

15. _____ The original price of the winter jacket was \$200. The sales tax is 6%. Find the total amount paid for the jacket.

Chapter 7 Test

(PA7) pg. 3

16. _____ A family spent \$62 on a meal at Applebee's. The waitress was excellent so they left a 20% gratuity. How much gratuity did the waitress receive? How much did the family spend in all? (4 pts.)

17. _____ A salesman earns \$1200 a month plus 15% commission on total sales. He sold \$500 worth of items in June. How much did he earn on commission? What is the total he earned that month? (4 pts.)

18. _____ The principal amount Kendra has in savings is \$4500. The simple annual interest rate is 4%. If she keeps her money in this account for 15 years, how much will she earn in interest? How much will she have in all? (4 pts.)

Chapter 8 Test

Pre-Algebra

Name: _____

Period: _____

1. What point is at $(-3,3)$? _____

2. Give the ordered pair for Y _____

3. Identify domain and range of the relation.
Then tell if it is a function.

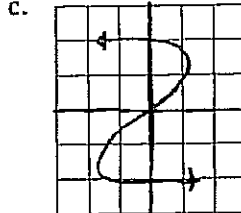
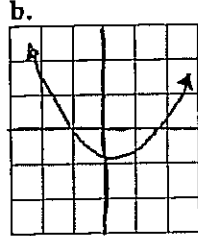
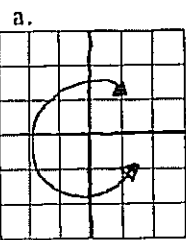
$(-2,4)$ $(-1,2)$ $(0,0)$ $(1,2)$

Domain: _____

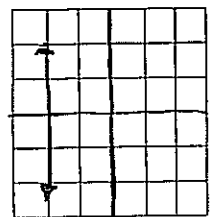
Range: _____

Is it a function? Y/N

4. Which graph is a function (use Vertical Line Test)



d.



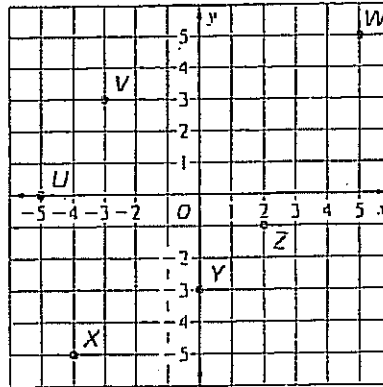
Tell whether the ordered pair is a solution (show work - 2 points)

5. $y = -6x - 14$; $(-5, 16)$

6. $2x - 3y = 7$; $(8, -3)$

Write the equation in function form: $y =$

7. $8x + 4y = 20$

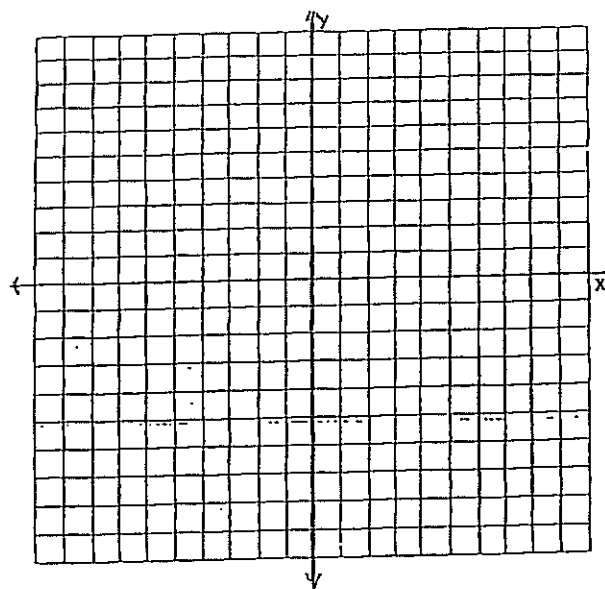


Chapter 8 Test (PA7) pg. 2

Graph using table

8. $y = -3x + 6$

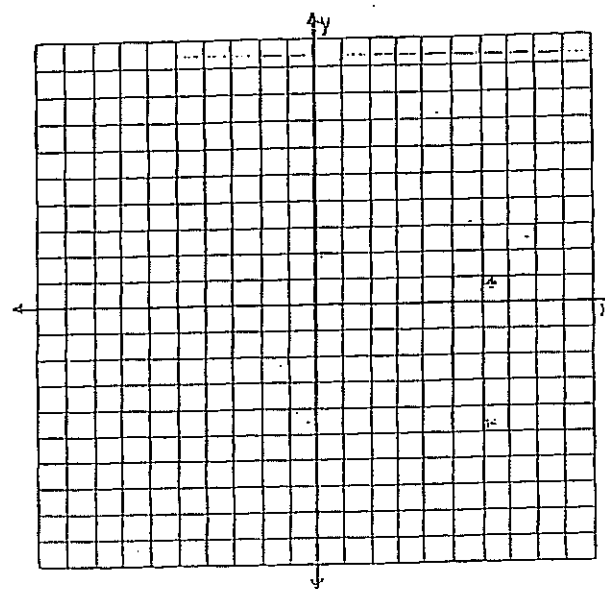
X	Y
-1	
0	
1	



Graph using intercepts

9. $3x + 8y = 24$

x-int = _____ y-int = _____

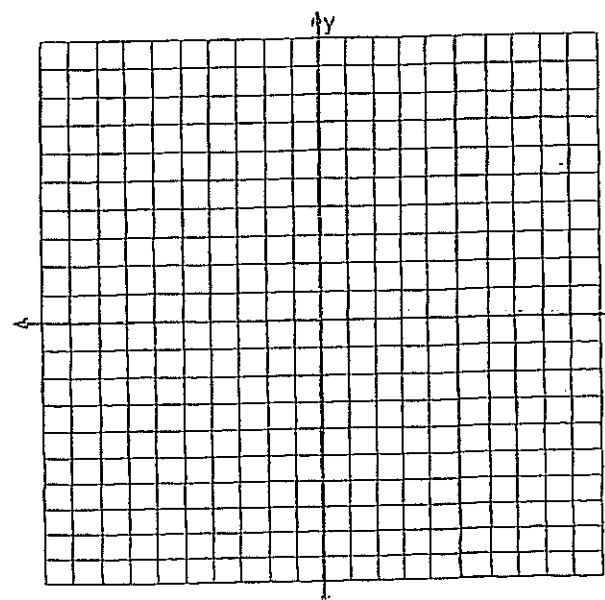


Graph using slope-intercept form

10. $y = \frac{3}{4}x - 3$

m =

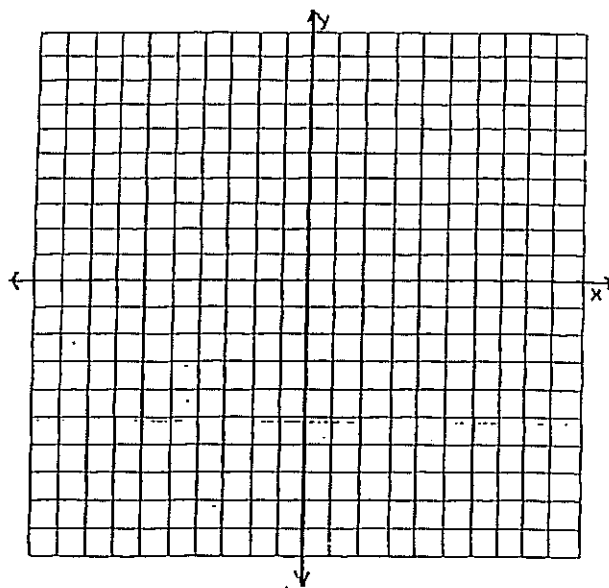
b =



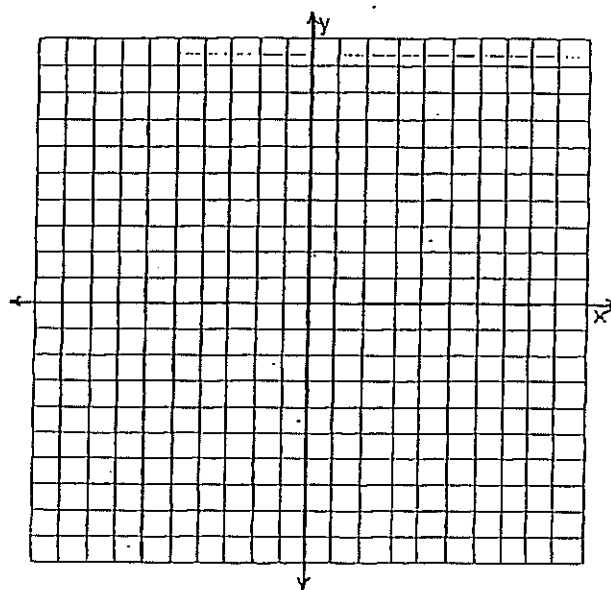
Chapter 8 Test
(PA7) pg. 3

Graph the lines. Use any method that you prefer.

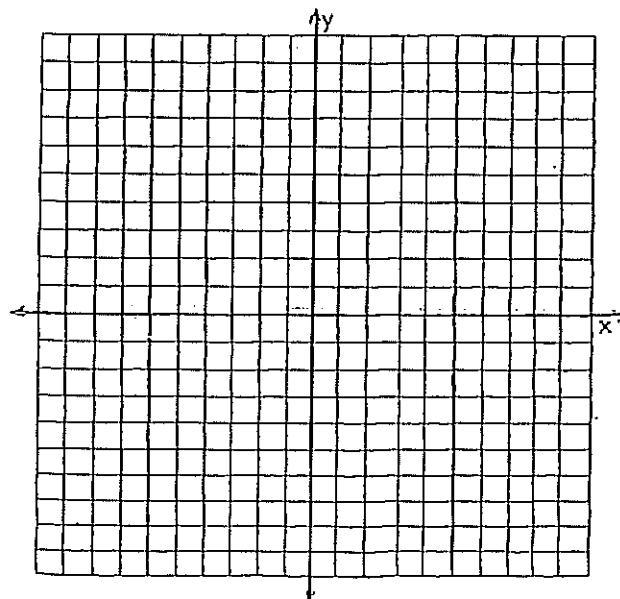
11. $4x + 2y = -2$



12. $y = -x + 3$



13. $y = \frac{1}{2}x + 1$

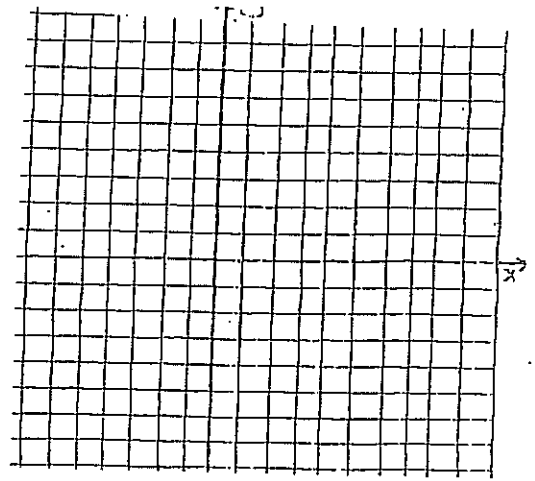


Chapter 8 Test
(PA7) pg. 4

Find the slope of the line through the given points

14. $(-3,0)$ and $(-1,6)$

15. $(5,5)$ and $(2,7)$



16. Write the equation of the line ($y = mx + b$) that goes through the points $(1,5)$ and $(0,6)$

17. Given the line $y = \frac{3}{5}x + \frac{7}{3}$ find the parallel slope and the perpendicular slope

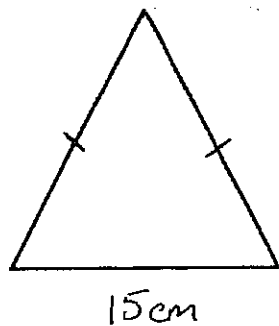
Slope of original line = _____

Parallel slope = _____

Perpendicular slope = _____

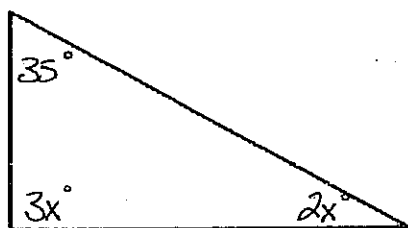
Part 1 (Lesson 10.1-10.4)

1. Solve for x , and classify the triangle: Scalene, Isosceles, Equilateral

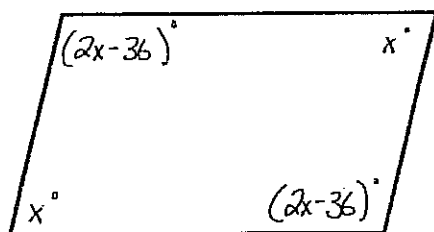


Perimeter = 25cm

2. Solve for x , and classify the triangle: Acute, Obtuse, Right

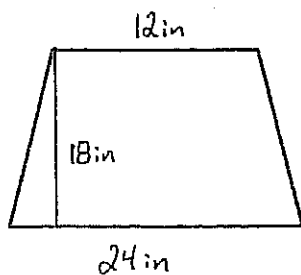


3. Solve for x , and classify the quadrilateral: Trapezoid, Parallelogram, Rhombus, Rectangle, Square

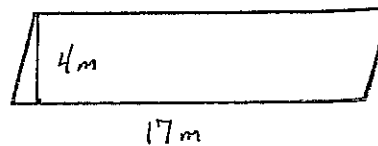


Find the AREA.

4.



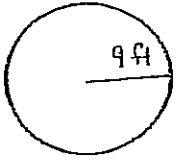
5.



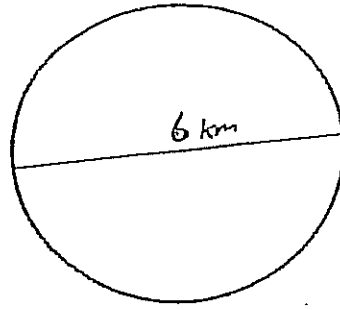
Chapter 10 Test
(PA7) Part I pg. 2

Find the AREA and CIRCUMFERENCE

6.

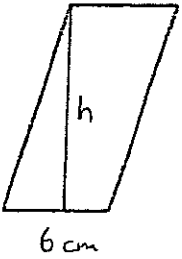


7.



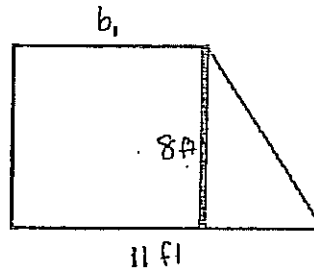
Find the unknown measure of the parallelogram, trapezoid, or circle. Round answer to nearest whole number.

8.



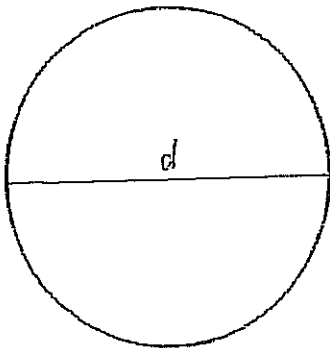
$$A = 54 \text{ cm}^2$$

9.



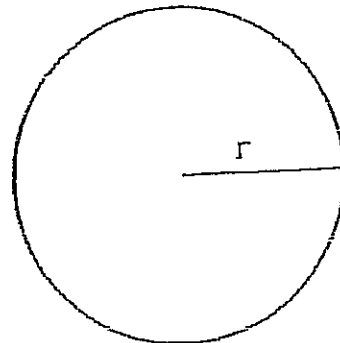
$$A = 68 \text{ ft}^2$$

10.



$$C = 132 \text{ mm}$$

11.



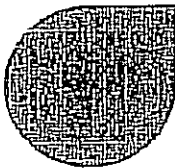
$$A = 201 \text{ m}^2$$

Matching

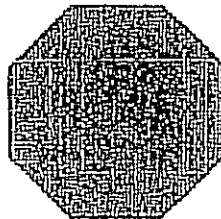
- | | |
|-------------------------|---------------------|
| 12. _____ Hexagon | A. 4 sided polygon |
| 13. _____ Decagon | B. 5 sided polygon |
| 14. _____ Pentagon | C. 6 sided polygon |
| 15. _____ Heptagon | D. 7 sided polygon |
| 16. _____ Quadrilateral | E. 8 sided polygon |
| | F. 10 sided polygon |

Determine whether or not each is a polygon (YES or NO). If Yes, classify the polygon.

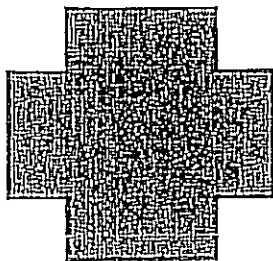
17.



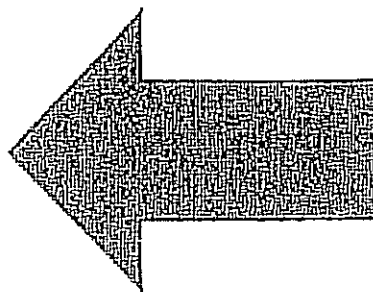
18.



19.



20.



Bonus: For #17-20, indicate convex or concave. (1 pt. each)

Chapter 10. Test

Part 1

Match the correct equation with the right name by placing the right letter on the line provided.
(1pt. each)

You must have this part of the test checked before you get the second part of the test!!

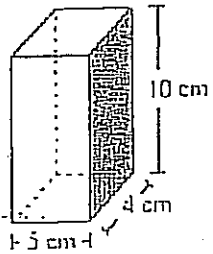
(+3 if all formulas are correct the first time. +1 if all formulas are correct the second time.)

- | | |
|-------------------------------------|--|
| 1. _____ Volume of a Cone | A. πr^2 |
| 2. _____ Volume of a Prism | B. $a^2 + b^2 = c^2$ |
| 3. _____ Volume of a Cylinder | C. $2B + Ph$ or $2(bw) + Ph$ |
| 4. _____ Volume of a Pyramid | D. $\pi r^2 + \pi r l$ |
| 5. _____ Area of a triangle | E. $\frac{1}{3}Bh$ or $\frac{Bh}{3}$ or $\frac{1}{3}(bw)h$ |
| 6. _____ Surface area of a Cylinder | F. $2\pi r^2 + 2\pi r h$ |
| 7. _____ Surface area of a Prism | G. Bh or bwh |
| 8. _____ Surface are of a Pyramid | H. $\pi r^2 h$ |
| 9. _____ Area of a circle | I. $\frac{1}{2}bh$ or $\frac{bh}{2}$ |
| 10. _____ Surface area of a cone | J. $\frac{1}{3}\pi r^2 h$ or $\frac{\pi r^2 h}{3}$ |
| 11. _____ Pythagorean Theorem | K. $B + \frac{1}{2}Pl$ or $(bw) + \frac{1}{2}Pl$ |

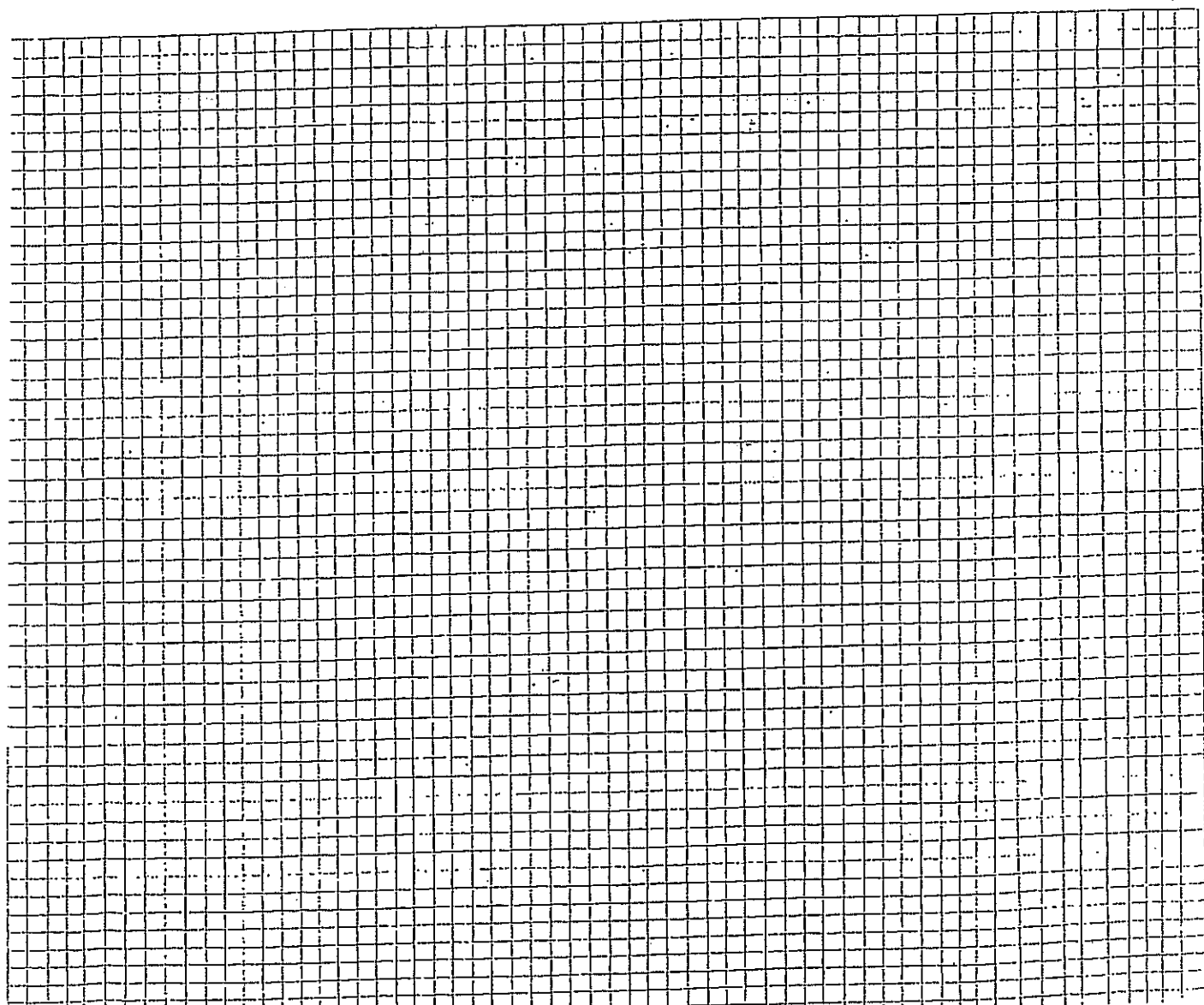
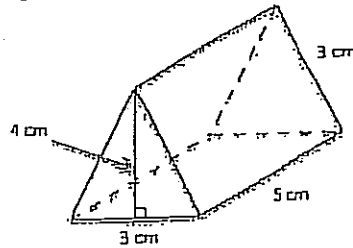
Chapter 10 Test
Part 2 pg. 2

Use the graph to draw a NET for each of the following shapes. (2 pts. each)

12.

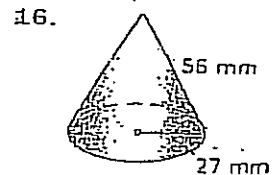
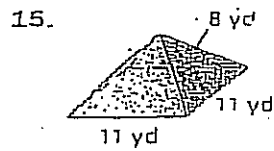
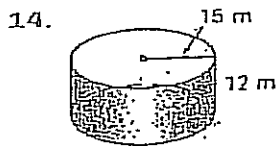


13.



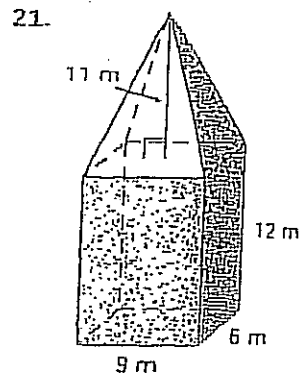
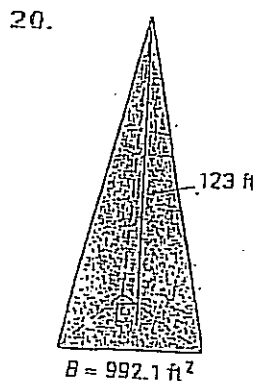
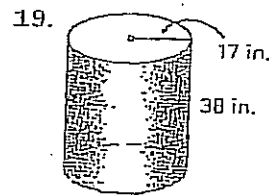
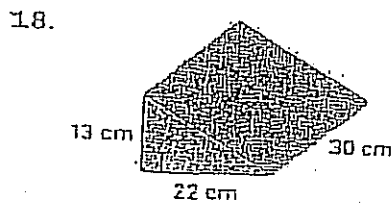
Chapter 10 Test
Part 2 pg. 3

Find the surface area of the cylinder, pyramid, or cone. Round to the nearest whole number. Use 3.14 for π . (4 pts. each)



17. You are wrapping a gift box that is 16 inches long, 7 inches wide, and 9 inches tall. Find the least amount of wrapping paper needed to cover the gift box to the nearest square inch. (4 pts.)

Find the volume of the solid. Round to the nearest whole number. Use 3.14 for π . (4 pts.)



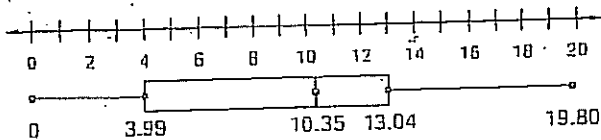
22. You are filling paper cones with popcorn for a party. The radius of each cone is 8 centimeters and the height is 15 centimeters. Find the amount of popcorn needed to fill the paper cone to the nearest cubic centimeter. Use 3.14 for π . (4 pts.)

Chapter 11 Test
Part I

1. The average weights, in grams, of 35 species of baby birds are given below. Make an ordered stem-and-leaf plot of the data.

10, 15, 11, 12, 10, 8, 7, 10, 20, 18, 18, 12, 5, 10, 11, 7, 5, 20,
21, 25, 11, 21, 12, 16, 5, 5, 12, 11, 10, 5, 18, 7, 6, 12, 9

2. The amounts of sugar, in grams, in one serving of 54 types of cereal are displayed in the box-and-whisker plot. About what percent of the cereals have between 3.99 and 10.35 grams of sugar per serving?



- a. What is the median? _____
- b. What is the upper extreme? _____
- c. What percent of cereals are between 3.99 and 10.35 grams? _____
- d. What is the lower quartile? _____

Tell whether the data are **numerical** or **categorical**?

3. The salaries of engineers in the United States. _____
4. The highway gas mileages of several vehicles. _____

A sample of the people that attended a conference is surveyed to find ways to improve the next conference. Tell what type of sampling method is used.

5. The attendees are divided into age groups and then 20 people from each age group are randomly selected.
6. The names of the attendees are alphabetized. Every tenth person on the list is selected.
7. _____ A survey with a margin of error of $\pm 3\%$ finds that 45% of the constituency is in favor of the new bill that was passed. In which interval is the population percent most likely to lie?

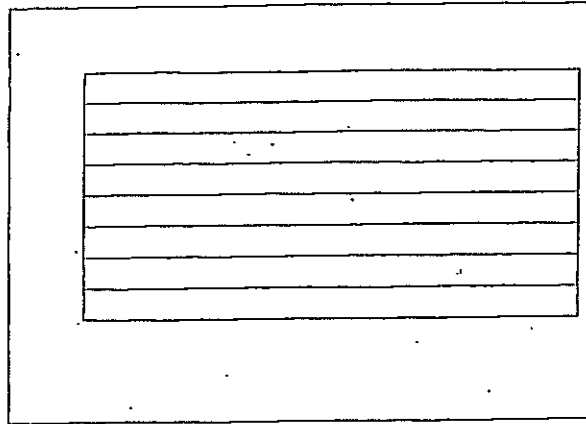
8. Name two ways that a graph can be misleading.

9. _____ You interview a random sample of 100 people. Forty-two people say that raspberry is their favorite muffin. There are 3000 people in town. Predict how many people in the town would say that raspberry is their favorite muffin flavor.

Chapter 11 Test
Part I pg. 3

10. The frequency table shows the distribution of the closing prices, in dollars, of stocks of regional interest. Use the frequency table to make a histogram of the data.

Prices	Frequency
0-9	12
10-19	6
20-29	15
30-39	13
40-49	8
50-59	4
60-69	2
70-79	0
80-89	1
90-99	1



- a. _____ What percent of closing prices are above \$70
- b. _____ How many intervals are higher than 7?

Determine if the questions are potentially biased. Explain your answer.

11. Would you rather have an awesome black and gold jacket or a plain red jacket?
12. Would you rather watch a movie at a theater or your house?
13. Would you rather enjoy playing football or stand around bored playing baseball?

Pre-Algebra

Chapter 11 Part 2 Test

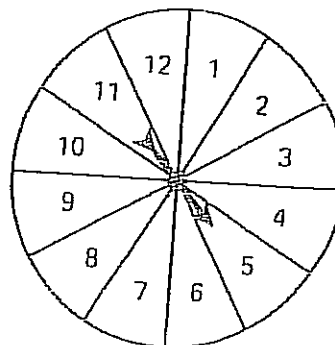
Name: _____

Date: _____

1. What is the probability that the spinner stops on a multiple of 4?

2. What are the odds in favor of stopping on a multiple of 3?

3. If you spin the spinner 100 times, how many times do you expect it to stop on a number less than 10?



4. You are renting a car. You can choose a compact, mid-size, full-size, or SUV. From those categories you can choose a low, average, or high priced model. How many different automobile choices do you have?

5. At a restaurant, you can choose 2 different side dishes from a list of 10. How many possible side dish choices do you have?

6. An entry code into a building is a 5-digit number

a) How many different codes are possible if you repeat numbers?

b) How many different codes are possible if you DON'T repeat numbers?

c) If there are 80 employees, each with a different code, what is the probability you guess one of the codes? (use your answer from b)

Chapter 13 Test
(PA7) 50 points

Name: _____

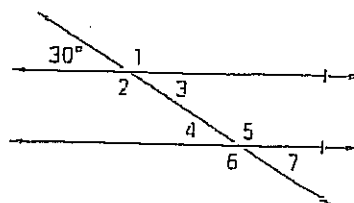
Tell whether the angles are complementary, supplementary, or neither

1. $m\angle 1 = 53^\circ$
 $m\angle 2 = 27^\circ$

2. $m\angle 1 = 82^\circ$
 $m\angle 2 = 98^\circ$

3. $m\angle 1 = 7^\circ$
 $m\angle 2 = 83^\circ$

4. Find the measure of the numbered angles in the diagram



Find the SUM of the measures of the interior angles of each polygon.

5. Quadrilateral

6. Pentagon

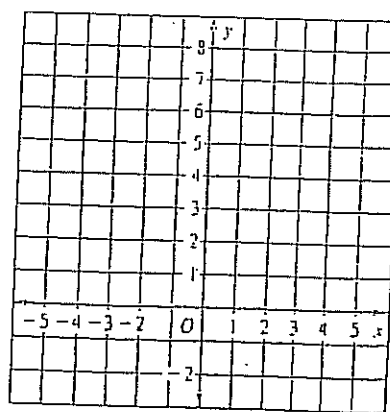
7. Hexagon

8. Five exterior angles of a hexagon have measures of 78° , 50° , 89° , 37° , and 65° . Find the measure of the sixth exterior angle.

9a. DRAW $\triangle ABC$ with $A(0,3)$, $B(-4,1)$, $C(3,-2)$

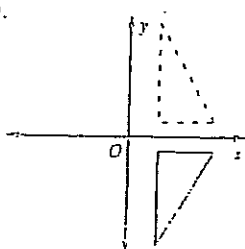
b. Find coordinates of the vertices of the image after the translation $(x,y) \rightarrow (x+2, y+4)$

c. DRAW new image

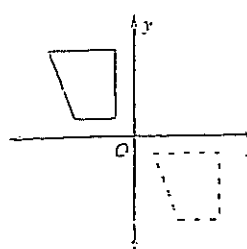


Tell whether the transformation is a reflection. If so, identify the line of reflection

10.



11.



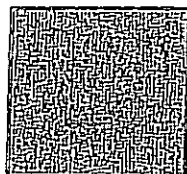
Chapter 13 Test
(PA7) pg. 2

Tell how many lines of symmetry the figure has

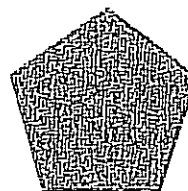
12.



13.

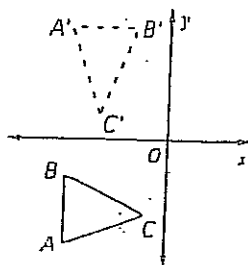


14.

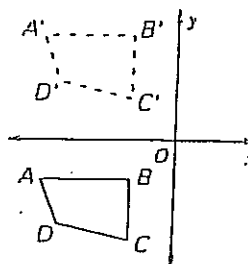


Tell whether the transformation is a rotation about the origin. If so, give the angle and direction of rotation.

15.



16.



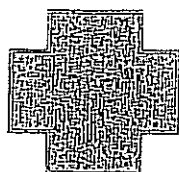
Let $\triangle ABC$ have vertices $A(-6, 3)$, $B(-1, -4)$, $C(3, -5)$. Give the coordinates of the vertices of the image after the specified transformation.

17. reflection in the x-axis

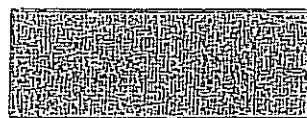
18. 180° rotation

Give angle of rotation and number of rotations that produce rotational symmetry

19.



20.

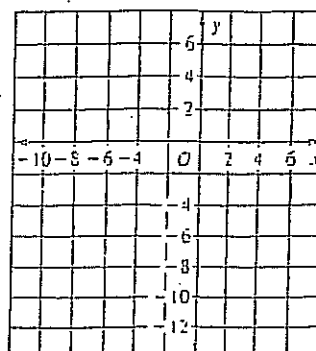


21a. Draw $\triangle PQR$ with $P(-5, 3)$, $Q(1, -4)$, $R(-1, -6)$.

b. Then find the coordinates of the vertices after a

Dilation having a scale factor of 2.

c. Draw the new image



IV. NCTM Standards

- A. Data Analysis and Probability (6-8)
- B. Standards for Measurement (6-8)
- C. Problem Solving

NCTM Standards for Data Analysis and Probability:

Grades 6-8

Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them

- formulate questions, design studies, and collect data about a characteristic shared by two populations or different characteristics within one population
- select, create, and use appropriate graphical representations of data, including histograms, box plots, and scatter plots

Select and use appropriate statistical methods to analyze data

- find, use, and interpret measures of center and spread, including mean and interquartile range
- discuss and understand the correspondence between data sets and their graphical representations, especially histograms, stem-and-leaf plots, box plots, and scatter plots

Develop and evaluate inferences and predictions that are based on data

- use observations about differences between two or more samples to make conjectures about the populations from which the samples were taken
- make conjectures about possible relationships between two characteristics of a sample on the basis of scatter plots of the data and approximate lines of fit
- use conjectures to formulate new questions and plan new studies to answer them

Understand and apply basic concepts of probability

- understand and use appropriate terminology to describe complementary and mutually exclusive events
- use proportionality and a basic understanding of probability to make and test conjectures about the results of experiments and simulations
- compute probabilities for simple compound events, using such methods as organized lists, tree diagrams, and area models

NCTM Standards for Measurement:

Grades 6-8

Understand measurable attributes of objects and the units, systems, and processes of measurement

All students should -

- Understand both metric and customary systems of measurement
- Understand relationships among units and convert from one unit to another within the same system
- Understand, select, and use units of appropriate size and type to measure angles, perimeter, area, surface area, and volume

Apply appropriate techniques, tools, and formulas to determine measurements

All students should -

- Use common benchmarks to select appropriate methods for estimating measurements
- Select and apply techniques and tools to accurately find length, area, volume, and angle measures to appropriate levels of precision
- Develop and use formulas to determine the circumference of circles and the area of triangles, parallelograms, trapezoids, and circles and develop strategies to find the area of more-complex shapes
- Develop strategies to determine the surface area and volume of selected prisms, pyramids, and cylinders
- Solve problems involving scale factors, using ratio and proportion
- Solve simple problems involving rates and derived measurements for such attributes as velocity and density

Problem Solving

Instructional programs from prekindergarten through grade 12 should enable all students to—

- build new mathematical knowledge through problem solving
- solve problems that arise in mathematics and in other contexts
- apply and adapt a variety of appropriate strategies to solve problems
- monitor and reflect on the process of mathematical problem solving

V. Daily Routines

- A. Mental Math
- B. Daily Math Reviews

MM 7-1

1. What is 3 hours after noon? (3 p.m.)
2. What is $376 + 5$? (381)
3. Estimate 43×57 . (2400)
4. What is $16/20$ in simplest form? ($4/5$)
5. What is 22 ? (4)

MM 7-3

1. What is 5 hours before midnight? (7 p.m.)
2. What is $400 - 35$? (365)
3. Estimate 290×58 . (18000)
4. What is $20/4$ in simplest form? (5)
5. What is 32 ? (9)

MM 7-2

1. What is 30 minutes after 4:45? (5:15)
2. What is $410 + 135$? (545)
3. Estimate 37×82 . (3200)
4. What is $14/5$ in simplest form? ($2 \frac{4}{5}$)
5. What is 33 ? (27)

MM 7-4

1. What is 15 minutes after 4:35? (4:50)
2. What is $239 + 8$? (247)
3. Estimate 113×310 . (30000)
4. What is $12/24$ in simplest form? ($1/2$)
5. What is 52 ? (25)

MM 7-8

1. What is 1 hour and 10 min. after 4:00? (5:10)
2. What is $16 + 45$? (61)
3. Estimate 9×97 . (900)
4. What is $18/18$ in simplest form? (5/6)
5. What is 43 ? (64)

MM 7-7

1. What is 7 minus 5 tenths? (6.5)
2. What is $35 + 75$? (110)
3. What times 7 equals 63? (9)
4. Round 476 to the nearest 10. (480)
5. What is 1600 divided by 40? (40)

MM 7-6

1. What is 8 minus 4 tenths? (8.6)
2. What is $60 + 70$? (130)
3. What times 10 equals 200? (20)
4. Round 543 to the nearest 100. (600)
5. What is 2000 divided by 50? (40)

MM 7-8

1. Write 106 and 45 thousands. (106,045)
2. What is $40 + 17$? (57)
3. What times 6 equals 54? (9)
4. Round 168 to the nearest 10. (170)
5. What is 3000 divided by 6? (500)

MM 7-9

1. What is 6 minus 4 hundredths? (5.96)
2. What is $80 + 50$? (130)
3. What times 100 equals 1000? (10)
4. Round 632 to the nearest 10. (630)
5. What is 1200 divided by 30? (40)

MM 7-10

1. What is 3 tenths times 7? (2.1)
2. How many dimes are in \$4.00? (40)
3. What do you call the answer when you add two numbers? (sum)
4. What is 1800 divided by 60? (30)
5. Write $6\frac{3}{4}$ as an improper fraction. ($\frac{27}{4}$)

MM 7-11

1. What is 8 minus 3 tenths? (4.7)
2. What is $140 + 55$? (195)
3. What times 8 equals 32? (4)
4. Round 799 to the nearest 100. (800)
5. What is 500×50 ? (25000)

MM 7-12

1. What is 4 hundredths times 5? (.2)
2. How many quarters in \$6.00? (24)
3. What do you call the answer when you divide two numbers? (quotient)
4. What is 360 divided by 4? (90)
5. Write $6\frac{4}{5}$ as an improper fraction. ($\frac{34}{5}$)

MM 7-13

1. What is 6 tenths times 2?
(1.2)
2. How many nickels in \$3.00?
(60)
3. What do you call the answer
when you subtract two
numbers? (difference)
4. What is 400×9 ? (3600)
5. Write $1 \frac{2}{3}$ as an improper
fraction. ($\frac{5}{3}$)

MM 7-15

1. What is 3 tenths times 3.
(.9)
2. How many nickels in \$6?
(120)
3. What is $65 - 40$? (25)
4. What is 200×60 ? (12,000)
5. Write $6 \frac{1}{2}$ as an improper
fraction. ($\frac{13}{2}$)

MM 7-14

1. What is 8 hundredths times
10? (.8)
2. How many dimes in \$10? (100)
3. What is $130 - 80$? (50)
4. What is 3600 divided by 5?
(700)
5. Write $1 \frac{2}{9}$ as an improper
fraction. ($\frac{11}{9}$)

MM 7-16

1. What is 5 tenths \times 7 tenths?
(.35)
2. What is $\frac{1}{4}$ of 24? (6)
3. What is $350 - 75$? (275)
4. What is $7 + 12 + 5$? (24)
5. How many candies in $3 \frac{1}{3}$
dozen? (40)

MM 7-17

1. What is 8 hundredths times 3 hundredths? (.0018)
2. What is $1/2$ of 26? (13)
3. What is $65 - 30$? (35)
4. What is $9 + 3 + 8$? (20)
5. How many eggs in 3 dozen? (36)

MM 7-19

1. What is 7 tenths times 4 tenths? (.28)
2. What is $1/2$ of 17? ($8 \frac{1}{2}$)
3. What is $720 - 110$? (610)
4. What is $15 + 7 + 6$? (28)
5. How many eggs in 8 dozen? (60)

MM 7-18

1. What is 3 tenths times 6 tenths? (.18)
2. What is $1/2$ of 48? (24)
3. What is $8000 - 500$? (4500)
4. What is $7 + 9 - 4$? (12)
5. How many cookies in $4 \frac{1}{2}$ dozen? (54)

MM 7-20

1. What is 7 hundredths times 4 hundredths? (.0028)
 2. What is $1/3$ of 18? (6)
 3. What is $800 - 140$? (460)
 4. What is $6 + 9 + 4 - 2$? (17)
 5. How many cookies in 10 dozen? (120)
- 5

MM 7-21

1. What is $\frac{3}{9}$ in simplest terms? ($\frac{1}{3}$)
2. What is the decimal for $\frac{1}{4}$? (.25)
3. What is \$4.10 times 2? (\$8.20)
4. $60 \times 80 =$ (4800)
5. What is $\frac{1}{4}$ of \$2? (\$.50)

MM 7-23

1. What is $\frac{3}{4}$ of 20? (15)
2. 6 meters equal how many centimeters? (600)
3. How many $\frac{1}{3}$'s in $2\frac{1}{3}$? (7)
4. 300 divided by 6 equals. (50)
5. What is $4 - 1\frac{1}{2}$? ($2\frac{1}{2}$)

MM 7-22

1. 8 oz. is what fraction of pound in simplest form? ($\frac{1}{2}$)
2. $\frac{3}{4}$ of 16 = (12)
3. What is $840 \div 8$? (548)
4. One minute 30 seconds equals how many seconds? (90)
5. If 6 apples cost \$.60 how much would 3 cost? (\$.30)

MM 7-24

1. What percent of 60 is 30? (50%)
2. What is 6 times 4 divided by 3? (8)
3. Round 388 thousandths to hundredths. (.37)
4. $40 \times 120 =$ (4800)
5. What is 12 hundredths divided by 2? (.06)

MM 7-25

1. Joe had 60 stamps. He got 50 more from his uncle and 40 more from his aunt. How many does he now have? (150)
2. $\frac{3}{4}$ of 24 is? (18)
3. 8 oz. equals what fraction of a pound in simplest form? ($\frac{3}{8}$)
4. What is $\frac{1}{2}$ of $\frac{1}{8}$? ($\frac{1}{16}$)
5. Candy costs 2 cents a piece. How many pieces can you buy for 60 cents? (30)

MM 7-27

1. How many inches in 2 yards 4 inches? (76)
2. $6 \times 9 \times 2 =$ (108)
3. $630 - 40 =$ (590)
4. What percent of 20 is 18? (75%)
5. 120 divided by 4 = (30)

MM 7-28

1. What is $\frac{16}{32}$ in lowest terms? ($\frac{1}{2}$)
2. 600 divided by 4 = (150)
3. 3 times 4 times 3 = (36)
4. What is the decimal for $\frac{1}{4}$? (.25)
5. What is $120 - 40$? (80)

MM 7-28

1. $\frac{1}{2}$ of $6\frac{1}{2} =$ ($3\frac{1}{4}$)
2. $6 \times 2 \times 5 =$ (60)
3. How many $\frac{1}{5}$'s in $5\frac{2}{5}$? (27)
4. 150 divided by 5 = (30)
5. $\frac{1}{6}$ of 180 = (30)

MM 7-29

1. What is $8/84$ in simplest form? ($4/27$)
2. What is the decimal for $6/10$? (.6)
3. 840 divided by $2 =$ (270)
4. 6 meters equals how many centimeters? (600)
5. What is $1/2$ of 21 ? ($10 \frac{1}{2}$)

MM 7-30

1. $548 + 8 =$ (556)
2. $128 \times 2 =$ (256)
3. How many $1/6$ are in 2 ? (12)
4. What is 4200 divided by 2 ? (2100)
5. $6 \times 20 + 8 =$ (128)

MM 7-31

1. Sue has 12 horses. She sold $3/4$ of them. How many horses does she have now? (3)
2. What is $1/6$ of 35 ? (7)
3. What is $13 - 2 \frac{1}{2}$? ($10 \frac{1}{2}$)
4. What percent of 120 is 40 ? (33%)
5. What is $2/3$ of 12 ? (8)

MM 7-32

1. What is 1.10×4 ? (4.40)
2. What is the decimal for $1/5$? (.20)
3. What is $4 \frac{1}{2} - 2 \frac{1}{4}$? ($2 \frac{1}{4}$)
4. What is $18/24$ in simplest form? ($3/4$)
5. $120 \times 20 =$ (2400)

MM 7-33

1. What is the decimal for $4/5$?
(.8)
2. 660 divided by 3 = (220)
3. What is 180×3 ? (540)
4. What is 6×10 divided by
2? (30)
5. What percent of 140 is 14?
(10%)

MM 7-35

1. Round .138 to the nearest
hundredth. (.14)
2. $2/5$ of 100 = (40)
3. $90 \times 3 + 30 = (300)$
4. What is $\$1.30 \times 4$? (\$5.20)
5. What is the decimal for $3/5$?
(.6)

MM 7-34

1. 4 oz. is what fractional
part of a pound? ($1/4$)
2. $1/6$ of 60 = (10)
3. What is $145 + 13$? (158)
4. What is $1/4$ of 80? (20)
5. What is $8 \times 11 + 13$? (68)

MM 7-36

1. What is $18/54$ in simplest
terms? ($1/3$)
2. Round 67 hundredths to the
nearest tenth. (.7)
3. $1/4$ of 48 = (12)
4. $63 \times 2 = (126)$
5. What is $2 \times 12 \times 2$ (48)

MM 7-37

1. 8 oranges cost \$1.20. How much would 12 cost? (\$1.80)
2. What is $339 + 8$? (347)
3. What is 6×8 minus 4×2 ? (40)
4. $\frac{3}{4}$ of 120 = (90)
5. What is $9 - 2 \frac{1}{2}$? ($6 \frac{1}{2}$)

MM 7-39

1. How many $\frac{1}{8}$ ths in 8? (64)
2. $66 + 66 =$ (132)
3. If 12 pears cost \$1.20, how much would 18 cost? (\$1.80)
4. What is 62×2 ? (124)
5. 8×20 divided by 4 = (25)

MM 7-38

1. What is the decimal for $\frac{8}{100}$ ths? (.08)
2. What is 91 divided by 7? (13)
3. What is 640 divided by 4? (160)
4. 32 oz. is how many lbs.? (2)
5. What is $\frac{1}{2}$ of 92? (46)

MM 7-40

1. What is 62 hundredths divided by 2? (.31)
2. 15 meters equal how many centimeters? (1500)
3. What is $3 - \frac{1}{3}$? ($2 \frac{2}{3}$)
4. How many $\frac{1}{7}$ ths in 10? (70)
5. 15×4 divided by 4 = (15)

MM 7-41

1. What is $\frac{2}{3}$ of 66? (44)
2. $62 =$ (36)
3. What is your change from \$45 if your purchase is \$18.50? (\$26.50)
4. What is the perimeter of a square with a side of 6 cm.? (24 centimeters)
5. $60 \times 120 =$ (7200)

MM 7-43

1. Children's tickets sell for \$3. Adult tickets sell for \$8. How much would 3 adult tickets and 3 children's tickets cost? (\$27)
2. 60 divided by 3 = (20)
3. A \$20 shirt is reduced by 80%. What is the new price? (\$4)
4. Write thirty-seven and forty-eight thousandths. (37.048)
5. Write the formula for the area of a square. ($4 \times \text{side}$)

MM 7-42

1. An increase from 16 to 24 is what percent increase? (50%)
2. Write an expression for 6 more than 4 times a number. ($4 \times n + 6$)
3. A triangle has a 45 degree angle and a 60 degree angle. What is the missing angle? (75 degrees)
4. Write the fraction for 25%. ($\frac{1}{4}$)

MM 7-44

1. John has a collection of quarters. Altogether he has \$12.50. How many quarters does he have? (50)
2. What number is halfway between 80 and 80? (80)
3. $43 =$ (64)
4. If 12 pencils cost \$2.40, how much do 6 cost? (\$1.20)
5. What is $\frac{1}{5}$ of \$1.20? (\$0.24)

MM 7-46

1. $3^3 = (27)$
2. What is your change from a \$50 bill if your purchase is \$30.80? (\$19.20)
3. What is the perimeter of a square with a side of 6 $\frac{1}{2}$ feet? (26 feet)
4. $30 \times 30 = (900)$
5. 6 tenths plus 38 hundredths = ? (.98)

MM 7-47

1. Six loaves of bread cost 30 cents a loaf. 3 pounds of butter cost 40 cents a pound. What is the total cost? (\$3.00)
2. 580 divided by 5 = (116)
3. A \$24 dress is reduced 25%. What is the new price? (\$18)
4. Write this number. Sixty-six and twenty-three thousandths. (66.023)
5. Write the formula for the area of a triangle. ($\frac{1}{2}bh$)

MM 7-46

1. $628 + 9 = (637)$
2. An increase from 4 to 12 is what percent increase? (200%)
3. Write an expression for 2 more than 8 times a number. ($8x + 2$)
4. A triangle has a 15 degree angle and a 100 degree angle. What is the measurement of the third angle? (65 degrees)
5. Write the fraction for 55% in lowest terms. ($\frac{11}{20}$)

MM 7-48

1. Joe has a collection of dimes. Altogether he has \$4.40. How many dimes does he have? (44)
2. What number is halfway between 99 and 33? (66)
3. $72 = (49)$
4. If 6 pads of paper cost \$8.60, how much do 12 cost? (\$13.20)
5. What is $\frac{1}{8}$ of \$6? (\$.75)

MM 7-49

1. What is the change from \$10 if your purchase is \$3.30? (\$6.70)
2. What is the perimeter of a square with a side of 15 ft.? (60 ft.)
3. $25 \times 5 = (125)$
4. 6 hundredths plus 24 thousandths = (.084)
5. $987 + 13 = (1000)$

MM 7-50

1. An increase from 20 to 25 is what percent increase? (25%)
2. Write an expression for 7 more than 10 times a number? ($10 \times n + 7$)
3. A triangle has a 15 degree angle and a 20 degree angle. What is the measurement of the missing angle? (145 degrees)
4. Write the fraction for 25%. ($1/4$)
5. Cats sell for \$15 each. How much does it cost for 6 cats? (\$90)

MM 7-51

1. 600 divided by 5 = (120)
2. A \$30 shirt is reduced by 50%. What is the new price? (\$15)
3. Write this number. Thirty-five and thirty-five thousandths. (35.035)
4. Write the area formula for a triangle. ($1/2 bh$)
5. Robbie has a collection of 80 cent pieces. He has saved \$15 worth. How many 80 cent pieces does he have? (30)

MM 7-52

1. What number is halfway between 80 and 160? (100)
2. $92 = (81)$
3. If lettuce costs 55 cents a head, how much do 7 heads cost? (\$3.85)
4. What is $2/3$ of 75? (50)
5. $63 = (126)$

MM 7-83

1. What is the change from a \$50 bill if you make a purchase costing \$19? (\$31)
2. What is the perimeter of a rectangular house with a length of 80 feet and a width of 38 feet? (170 ft.)
3. $90 \times 90 = (8100)$
4. 9 tenths plus 38 hundredths = (1.28)
5. $673 + 9 = (682)$

MM 7-88

1. 850 divided by 8 = (110)
2. A \$40 pair of pants is reduced by 20%. What is the new price? (\$32)
3. Write this number. Two hundred two and two-hundred two thousandths. (202.202)
4. $3^4 = (81)$
5. What is the cost of 15 packs of gum that sell for 20 cents each? (\$3)

MM 7-54

1. An increase from 60 to 90 is what percent increase? (50%)
2. Write an expression for 8 more than 6 times a number. ($6 \times n + 8$)
3. A triangle has a 28 degree angle and a 80 degree angle. What is the measurement of the third angle? (108 deg.)
4. Write the fraction for 40% in simplest form. ($\frac{2}{5}$)
5. Bananas sell for 60 cents each. Oranges sell for 50 cents each. What is the total cost for two of each? (\$2.20)

MM 7-56

1. What is $\frac{1}{8}$ of 64? (8)
2. $8^2 = (64)$
3. What is the change from a \$5 bill if your purchase was \$3.30? (\$1.70)
4. What is the area of a square with a side of 12 yards? (144 sq. yards)
5. $120 \times 30 = (3600)$

MM 7-57

1. 6 hundredths plus 6 thousandths = (.066)
2. $848 + 6 = (854)$
3. An increase from 20 to 50 is what % increase? (150%)
4. Write the expression for 4 more than 4 times a number. ($4 \times n + 4$)
5. A triangle has a 50 degree angle and a 45 degree angle. What is the measurement of the third angle? (85 deg.)

MM 7-59

1. $280 - 71 = (209)$
2. A \$38 blouse is reduced by 25%. What is the new price? (27)
3. An increase from 40 to 60 is what percent increase? (50%)
4. What is the change from \$35 if your purchase is \$13.50? (21.50)
5. $60 \times 20 = (1200)$

MM 7-58

1. Write an expression for 3 times a number plus 5. ($3 \times n + 5$)
2. Write a fraction for 90% in lowest terms. (9/10)
3. A triangle has a 55 degree angle and a 25 degree angle. What is the measurement of the third angle? (100 deg.)
4. $770 \div 70 = (11)$
5. Write this number. Nine and thirty nine thousandths. (9.039)

MM 7-60

1. What is the area of a rectangle that has a length of 8 inches and a width of 4 inches? (32 sq. inches)
2. Write a fraction for 70% in lowest terms. (7/10)
3. What number is halfway between 70 and 90? (80)
4. An increase from 10 to 40 is what percent increase? (300%)
5. $645 + 15 = (660)$

MM 7-61

1. Write $\frac{4}{5}$ as a decimal. (.8)
2. $90 \times 80 = (7200)$
3. Find the area of a square with a 7 ft. side. (49 sq. ft.)
4. 640 divided by 4 = (160)
5. 8 tenths plus 88 hundredths = (1.68)

MM 7-63

1. What is $\frac{3}{4}$ of 80? (60)
2. At 50 cents a lb., how much would 5 lbs. of pears cost? (\$2.50)
3. What is the interest for one year at 10% on \$1500? (\$150)
4. How many meters in 580 cm.? (5.8)
5. $+8 - -4 = (12)$

MM 7-62

1. What is 20% of 100? (20)
2. What is $5\frac{1}{2} - 2\frac{1}{4}$? ($3\frac{1}{4}$)
3. What is the supplement of a 60 degree angle? (120)
4. $+4 + -10 = (-6)$
5. Estimate 82×41 . (3200)

MM 7-64

1. What is 60% of 80? (48)
2. Noell needed a string 20 ft. long. She found one 6 ft. long. How much more did she need? (14 ft.)
3. What is 122? (144)
4. What is the perimeter of a square 15 ft. long? (60 ft.)
5. What is the square root of 144? (12)

MM 7-65

1. What is half of 16 and 8 hundredths? (8.03)
2. What is 480 divided by 8? (60)
3. If 8 oz. of soap costs 80 cents, how much would 1 lb. cost? (\$1.60)
4. What is 1% of 60? (.6)
5. Karleen had 6 quarters, 6 dimes and 6 nickels. She spent 40 cents. How much does she have left? (\$2.00)

MM 7-67

1. What is $1/4$ of 120? (30)
2. At 21 cents a lb., how much would 4 lbs. of candy cost? (84 cents)
3. What is the interest for one year at 10% on \$2200? (\$220)
4. How many meters in 440 cm.? (4.4)
5. $+3 - -5 = (8)$

MM 7-66

1. What is 20% of 80? (10)
2. What is $6 \frac{2}{3} - 2 \frac{1}{6}$? ($4 \frac{3}{6}$ or $4 \frac{1}{2}$)
3. What is the supplement of an 88 degree angle? (92 deg.)
4. $+3 + -3 = (0)$
5. Estimate 61×42 (2400)

MM 7-68

1. What is 80% of 90? (45)
2. $2^4 = (16)$
3. What is the perimeter of a square which is $6 \frac{1}{2}$ ft. on one side. (26 ft.)
4. What is $1/4$ of twelve and four hundredths? (3.01)
5. What is 150% of 60? (90)

MM 7-69

1. What is 8% of 680? (34)
2. $+8 - -2 = (8)$
3. How many meters is 680 cm.? (6.8)
4. Estimate 89×48 . (4500)
5. What is 20% of 600? (120)

MM 7-71

1. What is 30% of 200? (60)
2. What is 2^5 ? (32)
3. What is 96 divided by 3? (32)
4. If 4 oz. of nuts cost 60 cents, how much would one pound cost? (\$2.40)
5. $+8 - -4 = (4)$

MM 7-70

1. Frank had 4 quarters, 4 dimes and 4 nickels. He spent 80 cents. How much does she have left? (\$1.10)
2. What is the supplement of a 50 degree angle? (130 deg.)
3. What is $6 \frac{2}{3} - 2 \frac{1}{3}$? ($4 \frac{1}{3}$)
4. At 56 cents a lb., how much would 5 lbs. of potatoes cost? (\$2.80)
5. Estimate 21×30 . (600)

MM 7-72

1. What is $\frac{3}{5}$ of 25? (15)
2. Estimate 89×71 . (6300)
3. What is 60% of 600? (360)
4. What is the interest for one year at 8% on \$2000? (\$160)
5. What is $2 \frac{1}{2}$ times 8? (20)

MM 7-73

1. Jill cut a piece of material that was 6 ft. 4 in. long into two pieces. One was 4 ft. 2 in. long. How long was the other piece? (2ft. 2 in.)
2. What is the square root of 121? (11)
3. What is $3 \frac{1}{3}$ times 9? (30)
4. What is 120 divided by 6? (20)
5. What is $2400 - 1500$? (900)

MM 7-74

1. What is the interest for one year at 9% on \$3000? (270)
2. What is 60% of 4000? (2400)
3. What is $6 \times 8 - 4 + 6$? (50)
4. What is $3 - \frac{2}{3}$? ($2 \frac{1}{3}$)
5. How many meters in 380 cm.? (3.8)

MM 7-75

1. Estimate 22×31 . (600)
2. $+6 + -2 =$ (4)
3. At 42 cents a lb. how much would 6 lbs. of grapes cost? (\$2.52)
4. What is 80% of 400? (200)
5. What is 140 divided by 5? (28)

MM 7-76

1. What is $\frac{3}{4}$ of 200? (150)
2. What is 90% of 400? (360)
3. What is $6 \frac{7}{8} - 4 \frac{1}{8}$? ($2 \frac{6}{8}$ or $2 \frac{3}{4}$)
4. What is 126 divided by 6? (21)
5. $+5 - -2 =$ (7)

MM 7-77

1. What is the interest for 1 year at 8% on \$5000? (\$400)
2. What is 35% of 300? (105)
3. What is 84 divided by 4? (21)
4. $-8 + +2 = (-4)$
5. What is $230 - 170$? (60)

MM 7-79

1. What is 150% of 50? (75) ---
2. What is $16 - 3 \frac{1}{2}$? ($12 \frac{1}{2}$)
3. What is the complement of a 30 degree angle? (60 deg.)
4. $-8 + -15 = (-23)$
5. Estimate 23×72 . (1400)

MM 7-78

1. What is 50% of 460? (230)
2. What is $4 - 1 \frac{1}{3}$? ($2 \frac{2}{3}$)
3. What is the supplement of a 38 degree angle? (142 deg.)
4. $+8 + -12 = (-4)$
5. Estimate 37×54 (2000)

MM 7-80

1. What is 75% of 400? (300)
2. What is $3 \frac{1}{2} - 2 \frac{1}{4}$? ($1 \frac{1}{4}$)
3. What is the supplement of a 40 degree angle? (140 deg.)
4. $+16 - +7 = (9)$
5. Estimate 147 divided by 5. (30)

MM 7-81

1. What is 25% of 16? (4)
2. What is $4 \frac{1}{2} - 1 \frac{1}{2}$? (3)
3. What is the complement of a 25 degree angle? (65 deg.)
4. $-6 - -3 = (-3)$
5. Estimate 17×63 . (1200)

MM 7-83

1. What is 150% of 80? (120)
2. What is 70×60 ? (4200)
3. What is $2 \frac{1}{4}$ times 16? (36)
4. Estimate 799 divided by 20. (40)
5. $2.5 + 1.5 = (4)$

MM 7-82

1. What is 1% of 500? (5)
2. What is $4 \frac{1}{3} + 6 \frac{2}{3}$? (11)
3. What is the supplement of a 90 degree angle? (90 deg.)
4. $-16 - -7 = (-9)$
5. Estimate 63×28 . (1800)

MM 7-84

1. What is $360 + 480$? (840)
2. What is the area of a rectangle 14 m long and 6 m wide? (84 sq. m)
3. What is 2% of 140? (2.8)
4. Estimate 83.5×16 . (1600)
5. Write the number that is 4 tenths more than 15 and 7 tenths. (16.1)

1. Name _____

1.
$$\begin{array}{r} 6.752 \\ +9.837 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 82.635 \\ -47.08 \\ \hline \end{array}$$

3.
$$42 \overline{)84,252}$$

4.
$$\begin{array}{r} 638 \\ \times 85 \\ \hline \end{array}$$

5. $3\frac{1}{3} - 2 = \underline{\hspace{2cm}}$

6. $\frac{2}{3} - \frac{1}{4} = \underline{\hspace{2cm}}$

7. Sarah had picked 18 apples in 3 minutes. How many apples had she picked in one minute?

2. Name _____

1.
$$\begin{array}{r} 390.69 \\ -217.548 \\ \hline \end{array}$$

2. $4.07 + 3.281 + 5.009 = \underline{\hspace{2cm}}$

3.
$$46 \overline{)3680}$$

4.
$$\begin{array}{r} 196 \\ \times 93 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 20,035 \\ - \quad 692 \\ \hline \end{array}$$

6. $\frac{4}{5} + \frac{3}{6} = \underline{\hspace{2cm}}$

7. Pedro drove 600 miles in 10 hours. How many miles did he drive in 3 hours?

3. Name _____

1.
$$\begin{array}{r} 3.407 \\ +8.038 \\ \hline \end{array}$$

2.
$$\begin{array}{r} \$206.70 \\ - \quad 99.30 \\ \hline \end{array}$$

3.
$$33 \overline{)264}$$

4.
$$\begin{array}{r} 2002 \\ \times 634 \\ \hline \end{array}$$

5. 1 cm = _____ mm

6. 2 m = _____ mm

7. Toss a coin 20 times. How many times can you expect it to land heads?

4. Name _____

1.
$$\begin{array}{r} 6.325 \\ 9.006 \\ +4.917 \\ \hline \end{array}$$

2. $X - 21 = 40; X = \underline{\hspace{2cm}}$

3. $16 + t = 63; t = \underline{\hspace{2cm}}$

4.
$$59 \overline{)12272}$$

5.
$$\begin{array}{r} 7.46 \\ \times 3 \\ \hline \end{array}$$

6. $13.4 - 2.9 = \underline{\hspace{2cm}}$

7. At a rate of 64 kilometers per hour, how far will a car travel in $7\frac{1}{2}$ hours?

5. Name _____

1. $\begin{array}{r} \$918 \\ +350 \\ \hline \end{array}$

2. $\begin{array}{r} \$200.00 \\ -182.63 \\ \hline \end{array}$

3. $\begin{array}{r} 16,806 \\ \times 19 \\ \hline \end{array}$

4. $\frac{2}{3} + \frac{3}{4} =$ _____

5. $22 \overline{)21,483}$

6. 5 lbs. = _____ oz.

7. Find the length of a side of a square when the perimeter equals 272 mm.

6. Name _____

1. $\begin{array}{r} 43.00 \\ -10.95 \\ \hline \end{array}$

2. $\frac{1}{2}$ of 34 = _____

3. $3 \times \frac{6}{7} =$ _____

4. $94 \overline{)833}$

5. $\begin{array}{r} 24,065 \\ \times 34 \\ \hline \end{array}$

6. $\begin{array}{r} 8024 \\ +1996 \\ \hline \end{array}$

7. Find the perimeter of a square when one side equals 125 mm.

7. Name _____

1. $173 + 204 + 345 =$ _____

2. $\begin{array}{r} \$86.21 \\ -37.69 \\ \hline \end{array}$

3. $\begin{array}{r} 309 \\ \times 507 \\ \hline \end{array}$

4. $72 \overline{)8928}$

5. $\frac{5}{8} + \frac{2}{3} =$ _____

6. $1 - \frac{1}{2} =$ _____

7. A cake recipe calls for 2 cups of flour. You want to make $\frac{2}{5}$ of the recipe. How many cups of flour should you use?

8. Name _____

1. $\begin{array}{r} 163.2 \\ -122.4 \\ \hline \end{array}$

2. $1000 \times 0.01 =$ _____

3. $\frac{12}{18} = \frac{?}{3}$

4. $92.4 \div 10 =$ _____

5. $\begin{array}{r} 1.12 \\ \times 8.5 \\ \hline \end{array}$

6. $4600 \div 8 =$ _____

7. A ribbon is 9 inches long. How many pieces each $\frac{1}{2}$ inch long can be cut from the ribbon?

9. Name _____

1.
$$\begin{array}{r} \$6260 \\ -5469 \\ \hline \end{array}$$

2.
$$\begin{array}{r} \$11.98 \\ 2.44 \\ +33.81 \\ \hline \end{array}$$

3. $0.1 - 0.01 =$ _____

4.
$$\begin{array}{r} \$2.22 \\ \times 177 \\ \hline \end{array}$$

5. $27.3 \div 1000 =$ _____

6. Round .146 to hundredths

7. What will they cost?

2 for 43¢

Buy 14

10. Name _____

1. $4.09 - 3.14 =$ _____

2. $123.4 + 276.5 + 92.8 =$ _____

3.
$$\begin{array}{r} 0.5 \\ \times .4 \\ \hline \end{array}$$

4. $32 \overline{)100}$
Express answer as a decimal.

5. $\frac{1}{4}$ of 64 = _____

6. $1000 \times 1.634 =$ _____

7. How many will you get?

5 for 50¢

Spend \$1.00

11. Name _____

1.
$$\begin{array}{r} 1400 \\ -286 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 5.17 \\ 12.83 \\ +6.42 \\ \hline \end{array}$$

3.
$$\begin{array}{r} .0043 \\ \times 7.1 \\ \hline \end{array}$$

4. $7 \overline{)36.449}$

5. $\frac{2}{3}$ of 27 = _____

6. $\frac{6}{3} =$ _____

7. What will they cost?

6 for 25¢

Buy 18

12. Name _____

1.
$$\begin{array}{r} 1635 \\ +3807 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 7.39 \\ \times .6 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 3.004 \\ -2.936 \\ \hline \end{array}$$

4. $.09 \times .7 =$ _____

5. $11 - 0.602 =$ _____

6. $1.2 + 0.846 =$ _____

7. How many will you get?

3 for 22¢

Spend \$1.76

13. Name _____

1.
$$\begin{array}{r} 32.325 \\ +48.407 \\ \hline \end{array}$$

2. $2.63 - 1.57 =$ _____

3.
$$\begin{array}{r} .89 \\ \times 1.12 \\ \hline \end{array}$$

4. $82 \overline{)67978}$

5. $\frac{1}{8} + \frac{3}{4} + \frac{3}{16} =$ _____

6. $20 - 1.627 =$ _____

7. What will they cost?
4 for 81¢
Buy 24

14. Name _____

1. $8.93 - .86 =$ _____

2.
$$\begin{array}{r} \$45.48 \\ +16.17 \\ \hline \end{array}$$

3. $(1.0 + 0.75) + 1.5 =$ _____

4. $.56 =$ _____ % 5.
$$\begin{array}{r} 800 \\ \times 32 \\ \hline \end{array}$$

6. $93 \overline{)70.68}$

7. How many will you get?
9 for 19¢
Spend 57¢

15. Name _____

1. $92.15 - 57.56 =$ _____

2.
$$\begin{array}{r} 1475 \\ 940 \\ +3765 \\ \hline \end{array}$$

3. $75.69 \div 87 =$ _____

4. $40.2 \times 3.3 =$ _____

5. $0.5 + 1.6 + 9 =$ _____

6. $1.763 - 0.57 =$ _____

7. There are 49 plastic balls in a machine. 7 of them contain special prizes. The rest contain only candy. You buy 21 of the plastic balls. How many special prizes would you expect to receive?

16. Name _____

1.
$$\begin{array}{r} 16,740 \\ +42,194 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 55 \\ \times 3.1 \\ \hline \end{array}$$

3. $1.866 - .957 =$ _____

4.
$$\begin{array}{r} 1.72 \\ \times .057 \\ \hline \end{array}$$

5. Round \$4.18 to dollars.

6. Round to a whole number 1.68.

7. Solve the problem.
You jump 2.6 meters.
Your friend jumps 1.8 meters.
How much farther do you jump?

17. Name _____

$$\begin{array}{r} 1. \quad 671 \\ \times 482 \\ \hline \end{array} \qquad 2. \quad \begin{array}{r} \$2.50 \\ +6.60 \\ \hline \end{array}$$

$$3. \quad \begin{array}{r} \$12.00 \\ - 2.60 \\ \hline \end{array} \qquad 4. \quad 28 \overline{)11.68}$$

5. $\frac{8}{3}$ as a mixed number is _____

6. $\frac{1}{2} = \frac{\quad}{\quad} \%$

7. There are 13 cans of peaches on the shelf. During the day, the grocer sells 7 cans. In the evening the grocer puts 9 new cans on the shelf. How many cans are now on the shelf?

18. Name _____

$$1. \quad \begin{array}{r} 5762 \\ 3088 \\ 2579 \\ +4670 \\ \hline \end{array} \qquad 2. \quad 70.00 - 19.78 = \underline{\quad}$$

$$3. \quad 4.90 \div 14 = \underline{\quad} \qquad 4. \quad \begin{array}{r} 25 \\ \times 33 \\ \hline \end{array}$$

5. Write the number 17 trillion 9 billion 245 thousand.

6. $2 \times 10^5 = \underline{\quad}$

7. Suppose you save \$5 a week. How much do you save in a year?

19. Name _____

$$1. \quad \begin{array}{r} 6243 \\ -4564 \\ \hline \end{array}$$

2. $18.728 + 0.605 = \underline{\quad}$

$$3. \quad 4 \overline{)24.8} \qquad 4. \quad \begin{array}{r} 0.15 \\ \times .25 \\ \hline \end{array}$$

5. $1\frac{2}{3} + 2\frac{5}{6} = \underline{\quad}$

6. $\frac{3}{4}$ of 96 = _____

7. Suppose you spend 50¢ every month to buy a new magazine. In one year, how much do you spend on magazines?

20. Name _____

1. $5.6 + 27 + 1.4 = \underline{\quad}$

$$2. \quad \begin{array}{r} \$9.05 \\ -3.99 \\ \hline \end{array} \qquad 3. \quad \frac{3600}{25} = \underline{\quad}$$

$$4. \quad \begin{array}{r} .026 \\ \times 0.14 \\ \hline \end{array} \qquad 5. \quad \text{Round } 46,785 \text{ to hundreds.}$$

6. $\frac{1}{2}$ of $3\frac{1}{2} = \underline{\quad}$

7. Find the Greatest Common Factor of 18 and 42.

21. Name _____

1.
$$\begin{array}{r} 8.93 \\ -5.86 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 19,732 \\ +15,608 \\ \hline \end{array}$$

3. $38.16 \div 5.3 =$ _____

4.
$$\begin{array}{r} 774.3 \\ \times 8.2 \\ \hline \end{array}$$

5. $7/4$ as a mixed number = _____

6. $3/4 = ?/8$

7. If ingots sell for 5 for 45¢ how much will 15 cost?

22. Name _____

1.
$$\begin{array}{r} 18,300 \\ -12,207 \\ \hline \end{array}$$

2. $256 + 748 + 407 =$ _____

3. $68 \overline{)2917.2}$

4.
$$\begin{array}{r} 19.46 \\ \times 0.18 \\ \hline \end{array}$$

5. $4 \frac{1}{2} + 3 \frac{1}{4} =$ _____

6. $8 \frac{2}{3} - 5 \frac{1}{6} =$ _____

7. The zoo has 3 elephants for every 7 monkeys. It has 42 monkeys. How many elephants are in the zoo?

23. Name _____

1.
$$\begin{array}{r} 3.960 \\ 8.145 \\ 5.336 \\ +13.068 \\ \hline \end{array}$$

2.
$$\begin{array}{r} \$22.50 \\ -21.03 \\ \hline \end{array}$$

3. $27 \overline{)171.45}$

4.
$$\begin{array}{r} 2166 \\ \times 0.83 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 600,000 \\ -42,135 \\ \hline \end{array}$$

6. $600 + 5 + 0.1 + 0.04 =$ _____

7. If a house was built in 1984, in what year would it be 17 years old?

24. Name _____

1.
$$\begin{array}{r} 68.004 \\ -58.708 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 6408 \\ +7958 \\ \hline \end{array}$$

3. $34 \overline{)24072}$

4.
$$\begin{array}{r} 12.8 \\ \times 3.7 \\ \hline \end{array}$$

5. $4 \frac{2}{5} =$ How many fifths?

6. $56 + 4 + 45 =$ _____

7. Julio has \$31.00. He earns half that much mowing a lawn. How much money does he have in all?

25. Name _____

1. $90 - (64 + 13) = \underline{\hspace{2cm}}$

2. $\begin{array}{r} \$3.45 \\ +1.29 \\ \hline \end{array}$ 3. $46 \overline{)35.88}$

4. $\begin{array}{r} 55.3 \\ \times 2.9 \\ \hline \end{array}$

5. $1,078,304 - 65,932 = \underline{\hspace{2cm}}$

6. $8000 - 11 = \underline{\hspace{2cm}}$

7. 617 people went to the school play on Friday night. 538 went on Saturday night. How many more people were at the play on Friday night?

26. Name _____

1. $\begin{array}{r} \$4907 \\ 6420 \\ + 626 \\ \hline \end{array}$ 2. $\begin{array}{r} 900 \\ -356 \\ \hline \end{array}$

3. $24 \overline{)6839}$ 4. $\begin{array}{r} 266 \\ \times 1.8 \\ \hline \end{array}$

5. $816 + 30,427 + 519 + 23 = \underline{\hspace{2cm}}$

6. $\begin{array}{r} 25,093 \\ - 7,614 \\ \hline \end{array}$ 7. $10^4 = \underline{\hspace{2cm}}$

27. Name _____

1. $\begin{array}{r} \$552.50 \\ - 6.25 \\ \hline \end{array}$ 2. $\begin{array}{r} 607 \\ +962 \\ \hline \end{array}$

3. $86 \overline{)54123}$ 4. $\begin{array}{r} 3.5 \\ \times 4.5 \\ \hline \end{array}$

5. $6 \times 10^6 = \underline{\hspace{2cm}}$

6. Round 2,529,654 to thousands.

7. Which amount is \$678.69 rounded to the nearest dollar?

- A. \$679.00
- B. \$700.00
- C. \$680.00
- D. \$Not here

28. Name _____

1. $\begin{array}{r} .148.3 \\ + 70.7 \\ \hline \end{array}$ 2. $\begin{array}{r} \$10.00 \\ - 4.98 \\ \hline \end{array}$

3. $36 \overline{)792}$ 4. $\begin{array}{r} 12.75 \\ \times 0.8 \\ \hline \end{array}$

5. $\frac{2706}{30} = \underline{\hspace{2cm}}$ (remainder)

6. Round 46,793 to tens.

7. Which three numbers are written in order from least to greatest?

- A. 7,120; 7,201; 7,102
- B. 7,201; 7,120; 7,102
- C. 7,102; 7,120; 7,201
- D. Not here

29. Name _____

1.
$$\begin{array}{r} 0.204 \\ -0.106 \\ \hline \end{array}$$

2. $63.4 + 1.85 =$ _____

3.
$$\begin{array}{r} 25 \overline{)639} \\ \hline \end{array}$$

4.
$$\begin{array}{r} 326 \\ \times 9 \\ \hline \end{array}$$

5. $2\frac{3}{4} - 1\frac{7}{8} =$ _____

6. $2\frac{1}{3} + 4\frac{6}{7} =$ _____

7. In which place is the 6
in the number 2,563,981?

30. Name _____

1.
$$\begin{array}{r} 8461 \\ +3925 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 6001 \\ -2991 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 68 \\ \times 74 \\ \hline \end{array}$$

4. $12 \overline{)14.4}$

5. $\frac{5}{8}$ of 64 = _____

6. 7 yards = _____ feet

7. Write out twenty-nine million.

31. Name _____

1. Write in words 1,400.

2. $7314 (< = >) 7514$

3.
$$\begin{array}{r} 7306 \\ +4784 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 86276 \\ -45369 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 635 \\ \times 54 \\ \hline \end{array}$$

6. $23 \overline{)4991}$

7. Merry spent \$24 more than Ted.
Ted spent \$19 more than Jan.
Jan spent \$27. How much did
Merry spend?

32. Name _____

1. Write in standard form. four million
five hundred thousand

2. Round to thousands. 16,897

3. Order from greatest to least.
503, 3500, 305, 3,501

4. $89 \overline{)4984}$

5.
$$\begin{array}{r} \$8000 \\ -6783 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 7,329 \\ \times 9 \\ \hline \end{array}$$

7. A plane seats 66 people. How
many people do 15 of these planes
seat?

33. Name _____

$$\begin{array}{r} 1. \quad 1365 \\ 4681 \\ + 5924 \\ \hline \end{array}$$

$$2. \quad \begin{array}{r} 6.05 \\ \times .53 \\ \hline \end{array}$$

3. 14 ounces plus 6 ounces = _____ lb; _____ oz.

$$4. \quad \begin{array}{l} x + 17 = 30 \\ x = \end{array}$$

$$5. \quad 65 \overline{)5785}$$

$$6. \quad \begin{array}{r} 28000 \\ - 6340 \\ \hline \end{array}$$

7. A recipe calls for $\frac{3}{4}$ cup of sugar and you halve the recipe. How much sugar do you need?

34. Name _____

$$1. \quad 9 \overline{)9,006}$$

$$2. \quad \frac{8}{24} = \frac{?}{3}$$

$$3. \quad \begin{array}{r} 39,037 \\ + 9,063 \\ \hline \end{array}$$

$$4. \quad \begin{array}{r} 1009 \\ - 603 \\ \hline \end{array}$$

5. Write with exponents.
 $7 \times 7 =$ _____

$$6. \quad \begin{array}{r} 6210 \\ \times 106 \\ \hline \end{array}$$

7. Find the average 84, 71, 66, 99.

35. Name _____

$$1. \quad \begin{array}{r} \text{Estimate: } 20,064 \\ - 2,141 \\ \hline \end{array}$$

$$2. \quad \begin{array}{r} \text{Estimate: } 65,960 \\ + 8,321 \\ \hline \end{array}$$

$$3. \quad \begin{array}{r} \text{Estimate: } 478 \\ \times 18 \\ \hline \end{array}$$

4. Round to tens: 2806

$$5. \quad \begin{array}{r} 99046 \\ - 64428 \\ \hline \end{array}$$

$$6. \quad \begin{array}{l} 519 + 86 + \\ 4375 = \end{array}$$

7. Joe used all but $\frac{1}{3}$ of his car's 18 gallons of gasoline. How many gallons did he use?

36. Name _____

$$1. \quad 9.065 - 3.508$$

$$2. \quad \begin{array}{r} \$7.56 \\ + 9.28 \\ \hline \end{array}$$

$$3. \quad 74 \overline{)385}$$

$$4. \quad 200 \text{ cm} = \text{_____ m}$$

$$5. \quad 25 \text{ g} = \text{_____ mg}$$

$$6. \quad 15 + 12 = W + 15; W = \text{_____}$$

7. 25 is what percent of 20?

37. Name _____

1. $22 \overline{)435}$

2. $49 \times 32 =$

3. $\begin{array}{r} 415 \\ \times 96 \\ \hline \end{array}$

4. $92 - (40 + 2) - (30 + 20) =$

5. $\frac{1}{2} = \frac{N}{4}$

6. $4.5 \times 7 =$

7. The cost for one meter of iron is \$1.24. How much does 2.5 meters cost?

38. Name _____

1. $\begin{array}{r} 72 \\ \times 95 \\ \hline \end{array}$

2. $54 \overline{)1404}$

3. $25670 + 3107 =$

4. $\frac{10}{3} =$

5. $5.3 + 1.6 =$

6. $42.0 - 5.7 =$

7. How long will it take a car to travel 3300 miles at 60 miles per hour?

39. Name _____

1. $\begin{array}{r} 93.636 \\ 60.415 \\ +127.007 \\ \hline \end{array}$

2. $256 - 147 =$

3. $C - 200 = 800$; $C =$

4. $6.3 + t = 9.0$; $t =$

5. $5 \text{ m} =$ km

6. $8 \overline{)43.00}$

7. At a rate of 72 kilometers per hour, how long would it take to travel 504 kilometers?

40. Name _____

1. $\begin{array}{r} 2686 \\ -1067 \\ \hline \end{array}$

2. $7189 + 7032 =$

3. $70 \overline{)241}$

4. $\frac{5}{8} + \frac{1}{4} =$

5. $\begin{array}{r} 1.63 \\ \times 100 \\ \hline \end{array}$

6. $2.7 \overline{)0.8991}$

7. Some number divided by 8 is 17. What is the number?

41. Name _____

1.
$$\begin{array}{r} 8.000 \\ -2.421 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 8024 \\ +1996 \\ \hline \end{array}$$

3.
$$51 \overline{)21402}$$

4. What is $\frac{15}{27}$ in simplest form?

5. $\frac{3}{5} + \frac{3}{15} =$ _____

6.
$$\begin{array}{r} 6 \\ 13 \\ -2 \\ \hline 13 \end{array}$$

7. Six times some number is 78. What is the number?

43. Name _____

1. $892 - 357 =$ _____

2. Add:
$$\begin{array}{r} .129 \\ .377 \\ +.643 \\ \hline \end{array}$$

3.
$$\begin{array}{r} .082 \\ \times 7.5 \\ \hline \end{array}$$

4.
$$15 \overline{)78.20}$$

5. $1 - \frac{1}{10} =$ _____

6. $\frac{1}{2} - \frac{3}{4} =$ _____

7. A drug store owner needs 960 tubes of toothpaste. There are 32 tubes in a case. How many cases does the owner need to buy?

42. Name _____

1.
$$\begin{array}{r} \$70,000 \\ + 36,145 \\ \hline \end{array}$$

2. $\$96.31 - \$35.12 =$ _____

3. $.125 \times .046 =$ _____

4.
$$9 \overline{)42.00}$$

5. $\frac{1}{2} \div 7 =$ _____

6. $1 - \frac{1}{8} =$ _____

7. There are 168 rolls of dimes. There are 12 tellers in the bank. Each receives the same number of rolls of dimes. How many rolls does each teller receive?

44. Name _____

1. $6 + (4 \div 2) - 1 =$ _____

2. 12 to the zero power = _____

3. $85 \cdot 1^5 =$ _____

4. True or False: $2^4 = 4^2$

5.
$$\frac{34 \times 2}{4} =$$

6. $1100^2 =$ _____

7. What is the Greatest Common Factor of 16 and 24?

45. Name _____

1. $8 + (4 \times 3) - 1 =$ _____

2. $10,000 - 871 =$ _____

3. $(912 \div 19) - 48 =$ _____

4. $3.75 + 9.08 =$ _____

5. $3.22 - 2.11 =$ _____

6. $.007 \times .075 =$ _____

7. In a class of 40, we find that $\frac{2}{5}$ are boys. $\frac{3}{4}$ of the boys are on the basketball squad. How many boys from this class are on the squad?

46. Name _____

1. $10^5 \times 10^3 =$ _____

2. $10^5 - 10^3 =$ _____

3. $455 \times 15 =$ _____

4.
$$\begin{array}{r} 16,486 \\ - 8,379 \\ \hline \end{array}$$

5. $1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 =$ _____

6. 500^3

7. There are approximately 2.54 centimeters in an inch. About how many centimeters would there be in a foot?

47. Name _____

1. 12^3

2. $99 \times 101 =$ _____

3. $4^3 + 4^2 + 4^1 =$ _____

4. $\frac{225 + 25}{5} =$ 5. $\frac{225 \times 25}{5} =$

6. $10^5 \div 10^3 =$ _____

7. How much change would be received from a \$20 bill after purchasing items priced at \$3.98, \$5.75, and \$1.39?

48. Name _____

1.
$$\begin{array}{r} 16,458 \\ + 7,956 \\ \hline \end{array}$$

2.
$$\begin{array}{r} .76 \\ - .684 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 358 \\ \times 3.7 \\ \hline \end{array}$$

4. $7 \overline{)86.8}$

5. $\frac{5}{7} + \frac{6}{7}$ in simplest form.

6. $\frac{7}{12} - \frac{1}{3}$ in simplest form.

7. There are 180 in the middle school. $\frac{2}{5}$ are in the 8th grade and $\frac{1}{3}$ are in the 7th grade. What fraction of the students are in the 6th grade?

49. Name _____

1. Estimate: $\begin{array}{r} 73.7 \\ -10.9 \\ \hline \end{array}$

2. Estimate: $\begin{array}{r} 78.3 \\ \times 47.1 \\ \hline \end{array}$

3. $15 - 3.036 =$ _____

4. $.06 \times 1000 =$ _____

5. $18 \overline{)1008}$

6. Least Common Multiple for 4 and 7.

7. Ten pounds of potatoes cost \$1.59.
To the nearest cent, what is the
cost per pound?

50. Name _____

1. Round \$18.35 to the nearest 10 dollars

2. $\begin{array}{r} 4.76 \\ +3.03 \\ \hline \end{array}$

3. $\begin{array}{r} 26.075 \\ -2.651 \\ \hline \end{array}$

4. $3/57 =$ _____ in simplest form.

5. Write the improper fraction for $6 \frac{3}{4}$.

6. Write the decimal for $2/5$.

7. Juan Martinez budgets \$10 for gasoline
\$8 for food and \$20 for lodging for a
one way trip. What should be the tota
budget for the round trip?

51. Name _____

1. $6 \overline{)4.8}$

2. $24 \overline{)29.76}$

3. $20 \overline{)\$165}$

4. $8.62 \times 1000 =$

5. $13 \div 10^4 =$

6. $\$1.04 \times 10^2 =$ _____

7. Otha drove 8.62 miles. Sammy
drove 1000 times that far.
How far did Sammy drive? Put
your answer in scientific
notation.

52. Name _____

1. $\$12 + \$8.96 + 89¢ =$ _____

2. $8012 \times 8 =$ _____

3. $4 \div 2 =$ _____

4. $2 \div 4 =$ _____

5. $24 \times 6.5 =$ _____

6. $3.5 \times 10^4 =$ _____

7. Connie drove 542 miles. Sam drove
482.6 miles farther than Connie.
How far did Sam drive?

53. Name _____

1. Express $\frac{4}{10}$ as a decimal.
2. Express $3\frac{5}{100}$ as a mixed decimal.
3. Replace the \bigcirc with $<$, $>$ or $=$.
 $2.05 \bigcirc 2.046$
4. Round to thousandth: 6.0834
5. $109 \times .7 =$ _____
6. $10.8 \times .45 =$ _____
7. Berle averaged 122.5 pins per game. If he bowled 4 games, how many total pins did he get?

54. Name _____

1. $130 \times 11 =$ _____
2. $2^3 \times 3^2 =$ _____
3. $17m = 68$ $m =$ _____
4. $22(33 + 44) =$ _____
5. $\frac{110 \times 1100}{11} =$
6. $\frac{.01 \times .001}{.0001} =$
7. Write the prime numbers less than 20.

55. Name _____

1. $10,000,000 \times .001 =$ _____
2. $\frac{10}{10} \times \frac{100}{100} =$ _____ (simplest form)
3. 2^{10}
4. $375 - 225 =$ _____
5. $2 \times 3^3 \times 7 =$ _____
6. $32 \cdot 19 = 8m$ $m =$ _____
7. How many seconds in an hour?

56. Name _____

1. 24^2
2. $\frac{4}{12} \times \frac{3}{5} =$
3. What is the multiplicative inverse (reciprocal) for $4\frac{3}{4}$?
4. $48 \overline{)6096}$
5. $\frac{5}{6} + \frac{5}{6} =$
6. $\frac{3}{4} - \frac{2}{3} =$
7. A class was given $\frac{3}{4}$ of an hour to complete an assignment. After 20 minutes, what fraction of an hour was left for the task?

57. Name _____

1. $4164 + 12 =$ _____

2.
$$\begin{array}{r} 5000 \\ -2098 \\ \hline \end{array}$$

3. $3^2 + 2^3 =$ _____

4. $m + 78 = 296$ $m =$ _____

5. $720 \div m = 80$ $m =$ _____

6. $3(8 + 7 + 5) =$ _____

7. Cora cuts 2 pieces from a roll of wire $8\frac{1}{6}$ feet long. One piece is $3\frac{3}{4}$ feet long and the other piece is $1\frac{1}{2}$ feet long. How much wire is left? (simplest form)

59. Name _____

1. $2 \times .2 \times .02 =$ _____

2. $10^4 =$ _____

3. $\frac{22}{7} \times 7 \times 7 =$ _____ (simplest form)

4. $\frac{7}{4} + \frac{1}{2} - \frac{3}{8} =$ _____ (simplest form)

5. $(\frac{3}{4})^3$ (simplest form)

6. $.125 + .375 + .625 + .875 =$ _____

7. A man has 100 feet of fencing. He uses it to make a rectangular pen 12 feet wide. How long is the pen?

58. Name _____

1. $7 \times 12 \times 100 =$ _____

2. $200^3 =$

3.
$$\begin{array}{r} 4865 \\ 2139 \\ 7264 \\ +5873 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 6280 \\ -1765 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 726 \\ \times 38 \\ \hline \end{array}$$

6. $76 \overline{)615,980}$

7. Easton received 5.63 centimeters of rain. Carterville received 2.86 centimeters of rain. How much more rain did Easton receive than Carterville?

60. Name _____

1.
$$\begin{array}{r} 3415 \\ 1719 \\ 8828 \\ 3754 \\ +1091 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 335.79 \\ 44.6 \\ 5.786 \\ +1131.11 \\ \hline \end{array}$$

3. $349.7 - 48.32 =$ _____

4. $\frac{7}{8} + .375 =$ _____ (simplest form)

5. $\frac{22}{7} \times \frac{3}{2} \times \frac{3}{2} =$ _____ (simplest form)

6. $927 \div 9 =$ _____ (simplest form)

7. If you run a 4 minute mile, what is your rate in feet per minute? (Hint: 1 mile = 5280 feet)

61. Name _____

1. 10 is 25% of what number?

2. $.72 \times 100 =$ _____

3. $\frac{3}{4} \div \frac{3}{4} =$ _____ (simplest form)

4. $\frac{3}{5} \times \frac{5}{9} =$ _____ (simplest form)

5. $4.035 - 2.791 =$ _____

6. $(\frac{3}{4})^2$

7. If you spent $\frac{3}{4}$ of an allowance of \$2.00, how much would you have left?

62. Name _____

1. $8402 - 2735 =$ _____

2. $7309 \times 48 =$ _____

3. $47 \overline{)10,342}$ (use a remainder)

4.
$$\begin{array}{r} \frac{3}{4} \\ + \frac{2}{3} \\ \hline \end{array}$$
 (simplest form)

5. $\frac{2}{3} \times \frac{5}{6} =$ _____ (simplest form)

6.
$$\begin{array}{r} 203.17 \\ - 186.52 \\ \hline \end{array}$$

7. There are 12 boys in the class and 15 girls. What is the ratio of boys to girls in simplest form?

63. Name _____

1. $.3 \times .03 \times .003 =$ _____

2.
$$\frac{384 \times 4}{6} =$$

3.
$$\frac{348 + 2763}{36}$$
 (Give as mixed number in simplest form.)

4. $40,000 \div 200 =$ _____

5. $4^2 + 2^4 =$ _____

6. Write the squares of the first 10 whole numbers.

7. A whole number greater than one that is not prime is a _____ number.

64. Name _____

1.
$$\frac{34 \times 56}{68} =$$

2. $1728 \div 12 =$ _____

3.
$$\begin{array}{r} 2419 \\ 3347 \\ 1989 \\ + 4434 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 54962 \\ - 3476 \\ \hline \end{array}$$

5.
$$\begin{array}{r} \frac{5}{6} \\ + \frac{1}{2} \\ \hline \end{array}$$

6. $\frac{1}{2} \times \frac{5}{6} =$ _____

7. My numerator is one less than my denominator. Both my numerator and denominator are prime. Which fraction am I?

65. Name _____

1. $1000 \times 100,000 =$ _____

2. $60 \times 360 =$ _____

3. $\frac{100 \times 10 \times 100,000}{1000 \times 100} =$ _____

4. $999 \times 9 =$ _____

5.
$$\begin{array}{r} 257 \\ +257 \\ \hline \end{array}$$

6. $1638 \div 9 =$ _____

7. Nineteen less than ninety-nine hundred.

66. Name _____

1. $.08 + .07 =$ _____

2.
$$\begin{array}{r} 477 \\ -195 \\ \hline \end{array}$$

3. $82 \overline{)573}$

4. $142 \times 2.5 =$ _____

5. $1/4 =$ _____ %

6. $1 \frac{3}{4} =$ ____/4

7. What is the expanded form for 906,107?

67. Name _____

Round to hundreds:

1. 687

2. 3643

3. 503,590

4.
$$\begin{array}{r} 488 \\ + 96 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 3291 \\ - 160 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 50,876 \\ +34,795 \\ \hline \end{array}$$

7. The Denver School needs \$1000 for trees to plant on Arbor Day. They have raised \$432 so far. How much more must they raise?

68. Name _____

1. $4 - 2.8 =$ _____

2. $16.2 - 1.62 =$ _____

3. $6.2 \times 1000 =$ _____

4. $7 \times \$5.04 =$ _____

5. $7 \overline{)11.2}$

6. $235 \times 17.6 =$ _____

7. Jill has 350 marbles. Eddie knows that he has more than twice as many as Jill. Eddie has at least how many more marbles?

69. Name _____

1. 1 gal. = _____ qt.

2. 1 T. = _____ lb.

3. $\begin{array}{r} 8 \text{ yd. } 1 \text{ ft.} \\ -2 \text{ yd. } 2 \text{ ft.} \\ \hline \end{array}$

4. .40 = _____ %

5. $0.9 \overline{)3.667}$

6. $\begin{array}{r} 3000 \\ -1793 \\ \hline \end{array}$

7. Gold was used to make jewelry that was $\frac{4}{5}$ pure gold. What percent of pure gold is this?

70. Name _____

1. $9.86 \times .7 =$ _____

2. Prime factor 51.

3. What is the Greatest Common Factor for 36 and 20?

4. $\frac{5}{6} + \frac{5}{6}$ in simplest form.

5. Change $\frac{9}{5}$ to a mixed number in simple form.

6. $\frac{5}{6} + \frac{3}{5} + \frac{2}{9}$ in simplest form.

7. Hermanso ate $\frac{2}{3}$ of the $\frac{1}{2}$ of a pie left from supper. What fraction of a pie did he eat?

71. Name _____

1. $\frac{1}{4}$ of 96 = _____

2. $87 \div 3 =$ _____

3. $\frac{1245}{6} =$ _____

4. $\begin{array}{r} 2458 \\ +7452 \\ \hline \end{array}$

5. $\begin{array}{r} 20,035 \\ -692 \\ \hline \end{array}$

6. $\begin{array}{r} 206 \\ \times 74 \\ \hline \end{array}$

7. It is 2627 km from New York to Pueblo. It's 1643 km from Pueblo to Seattle. What is the distance from New York to Seattle via Pueblo?

72. Name _____

1. $48 \overline{)2760}$

2. $\frac{60}{100} =$ _____ %

3. .35 = _____ %

4. 53% = _____

5. $600 + 5 + 0.1 + 0.04 =$ _____

6. $\frac{1}{3}$ of 41,208 = _____

7. Sand for the bottom of the aquarium is 96¢ a bag. If you need 6 bags about how much will you have to pay? (Round to the nearest 10¢.)

73. Name _____

1. $(53,862 + 49,254) - 375 =$ _____

2. $60,004 - 29,473 =$ _____

3. $1500 - 1299 =$ _____

4. $8 \times 966 =$ _____

5. $10^2 =$ _____

6. $57 - (30 - 16) + 9 =$ _____

7. Fegan collects about \$28 in fares each hour. About how much will he collect in 40 hours?

75. Name _____

1. $\begin{array}{r} \$700.00 \\ -259.00 \\ \hline \end{array}$

2. $1309 + 2485 =$ _____

3. $8 \overline{)423}$ 4. $73 \times 28 =$ _____

5. $3 \frac{2}{3} \div \frac{1}{7} =$ _____

6. $4.3 \text{ m} =$ _____ cm

7. There are 25 buttons on a table. 10 are blue. 15 are red. Without looking, pick up one button. What is the probability that it is red?

74. Name _____

Round to the underlined digit.

1. $0.\underline{1}46$

2. $\underline{5}.8$

3. $6.\underline{00}89$

4. $\begin{array}{r} 47,963 \\ +82,509 \\ \hline \end{array}$

5. $(0.333 + 0.666) + 0.01 =$ _____

6. $\begin{array}{r} 13. \\ -0.989 \\ \hline \end{array}$

7. Steve's the cashier at McDonald's. When the restaurant opened he started with \$56.40 in cash. When the restaurant closed he had \$1,873.52. How much did the restaurant take in?

76. Name _____

1. $16 - 1 + 10 =$ _____

2. $\begin{array}{r} 39568 \\ +42843 \\ \hline \end{array}$

3. $\frac{1}{5} \times \frac{4}{9} =$ _____

4. $48 \overline{)645}$

5. $5 \frac{3}{10} \div \frac{1}{8} =$ _____

6. $\frac{6}{8} = N/64$

7. You buy a comb and a pen. The comb costs \$.39 and the pen costs \$.57. How much do you spend in all?

77. Name _____

1. $9 + 9 - 7 + 12 =$ _____

2. $6\frac{3}{5} - 2\frac{1}{6} =$ _____

3. $4\frac{1}{2} + 2\frac{3}{4} =$ _____

4. $0.52 \overline{)197.6}$

5. $p + 20.1 = 20.1$; $p =$ _____

6. $\begin{array}{r} \$9.08 \\ \times 284 \\ \hline \end{array}$

7. There are 64 pages in a book. You read 37 pages. How many more pages do you need to read to finish the book?

78. Name _____

1. $\frac{3}{7} \times 1\frac{5}{9}$ in simplest form

2. $\frac{5}{6} \div \frac{1}{6} =$ _____

3. $3\frac{3}{4} + 5$ in simplest form

4. Find the mean (average) for the following: 8, $7\frac{1}{2}$, $6\frac{1}{4}$, $4\frac{3}{4}$

5. $77 \div 10 =$ _____

6. $\begin{array}{r} 2369 \\ + 480 \\ \hline \end{array}$

7. The price of a suit is reduced 25%. Find the amount of discount if the original price was \$120.

79. Name _____

Write as a decimal (1-3)

1. $\frac{1}{4} =$ _____

2. $\frac{6}{6} =$ _____

3. $\frac{75}{10} =$ _____

4. $3.2 \times 4.1 \times 5.7 =$ _____

5. $(2.1 + 4.3) - 4.7 =$ _____

6. $14.7 \div 10 =$ _____

7. One liter of pop costs \$0.80. How much will 4.25 liter of pop cost?

80. Name _____

1. $.4 \times .5 =$ _____

2. $.5 \times 9.7 =$ _____

3. $.22 \times 200 =$ _____

4. $\frac{28}{33} \times \frac{11}{15} \times \frac{30}{49} =$ _____

5. $\frac{3}{4} \times \frac{2}{2}$ in simplest form.

6. $(\frac{3}{4})^2$

7. A batch of cookies calls for $1\frac{1}{2}$ cups of sugar. How much sugar is needed for a triple batch?

81. Name _____

1.
$$\begin{array}{r} 8000 \\ -2176 \\ \hline \end{array}$$

2. $\frac{19}{20} - \frac{1}{5} =$ _____

3. $(\frac{9}{10} - \frac{1}{5}) - \frac{1}{4} =$ _____

4. $1 - 3/5 =$ _____

5. $8 - 4 \frac{3}{5} =$ _____

6.
$$\begin{array}{r} 32 \frac{5}{9} \\ -24 \frac{5}{6} \\ \hline \end{array}$$

7. Harold buys stock at $9 \frac{1}{4}$ and it goes up to $16 \frac{3}{4}$. In simplest form, how much did the stock go up?

82. Name _____

1. Write four thousand seventy in standard form.

2. Write nine thousand and nine thousandt in standard form.

3. Write $6 \times 6 \times 6 \times 6$ in exponent form.

4. Estimate 70.4×38.6 .

5. $12.1 - 9.63 =$ _____

6. Give the Least Common Multiple for 6 and 10.

7. How many prime numbers in the following: 6, 8, 11, 23, 27, 38, 51, 57

83. Name _____

1. $\frac{10}{12} = \frac{?}{6}$

2. $.025 = \frac{?}{40}$

3. $11/9$ equals what mixed number?

4. $9/10$ $18/20$; greater than, less than, or equal to

5. $4 \frac{5}{7}$ $4 \frac{9}{13}$; greater than, less than, or equal to

6. Give the decimal for $31/5$.

7. Jack Clark has \$100 to spend on gas for a 1200 mile trip. If his car gets 16 miles to a gallon of gas and the price of gas ranges between \$1.10 and

84. Name _____

1. What number is a factor of every number?

2. Which number is not prime?
3, 7, 11, 13, 21, 29

3. What's the Greater Common Factor for 9 and 12?

4. Use exponents to express the prime factorization of 175.

5.
$$\begin{array}{r} \$12.34 \\ \times \quad 13 \\ \hline \end{array}$$

6. $21.006 - 8.34 =$ _____

7. True or False: $7.6 > 7.1$

85. Name _____

1. $6.4 \times 10 =$ _____

2. $4.3 \div 100 =$ _____

3. $5\overline{)7}$

4. $.6\overline{)2.76}$

5. Donald received 94, 96, 89 and 91 on his tests. To the nearest whole number, what was his average?

6. $4.8 \times 7.24 \times 0 =$ _____

7. What property is illustrated by $A(B + C) = (A \times B) + (A \times C)$?

86. Name _____

1. Give the Least Common Multiple for 6 and 8.

2. Give the Greatest Common Factor for 10, 12 and 20.

3. Prime Factor 45.

4. $360 \div 15 =$ _____

5. $8400 \div 14 =$ _____

6. $33 \times 333 =$ _____

7. Ten times ten tens?

87. Name _____

1. $2\frac{1}{3} \times 3\frac{1}{4} =$ _____ (Simplest Form)

2. What is the reciprocal of .1?

3. $2\frac{2}{3} + 3\frac{1}{5}$ (Simplest form)

4. $3 - 2\frac{7}{8}$ (Simplest form)

5. $\frac{2}{3}$ of 30 = _____

6. $\frac{3}{4} \div 5\frac{1}{2} =$ _____ (Simplest Form)

7. If it takes $\frac{1}{4}$ hour to complete a certain task, how many such jobs can be completed in $1\frac{3}{4}$ hours?

88. Name _____

1. $12\frac{3}{4} - 9\frac{7}{8} =$ _____ (Simplest Form)

2. $\frac{3}{5} \div \frac{7}{10} =$ _____ (Simplest Form)

3. $3\frac{1}{2} \times 5\frac{2}{3} =$ _____ (Simplest Form)

4. $9\overline{)3924}$

5. Divide the product of 279 and 45 by 32 (Use a remainder.)

6. $83.59 \times 19 =$ _____

7. From the sum of 39.76 and 18.25 subtract 27.98.

89. Name _____

$$\begin{array}{r} 1. \quad 49.36 \\ \times \quad 2.7 \\ \hline \end{array}$$

$$2. \quad 4 \frac{2}{3} \div 2 \frac{1}{3} = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 3. \quad 42.37 \\ 18.49 \\ 32.06 \\ +41.75 \\ \hline \end{array}$$

$$4. \quad .8 \overline{)21.76}$$

5. Subtract 7.23 from 20.

$$6. \quad \frac{7}{8} - \frac{1}{3} = \underline{\hspace{2cm}} \text{ (Simplest form)}$$

7. The odometer in a car read 8476.9 before a trip and 9107.5 after the trip. How many miles had been traveled during the trip?

90. Name _____

$$1. \quad 2 \frac{3}{8} - \frac{1}{4} = \underline{\hspace{2cm}}$$

$$2. \quad 1 \frac{1}{2} + \frac{3}{4} + 2 \frac{1}{4} = \underline{\hspace{2cm}}$$

$$3. \quad 138 \overline{)44785} \quad (\text{Use a remainder})$$

$$4. \quad 2 \frac{1}{2} \div \frac{1}{2} = \underline{\hspace{2cm}}$$

$$5. \quad 1 \frac{1}{2} \times \frac{3}{4} = \underline{\hspace{2cm}}$$

$$6. \quad 225 \div 15 = \underline{\hspace{2cm}}$$

7. How much change would you receive from \$50 if you make a purchase of \$17.98?

91. Name _____

$$1. \quad 2 \times 7^2 = \underline{\hspace{2cm}}$$

$$2. \quad 2^2 \times 3^2 \times 5^0 = \underline{\hspace{2cm}}$$

3. Estimate: 4702 - 1945

$$4. \quad 34.7 - 21.55 = \underline{\hspace{2cm}}$$

$$5. \quad \frac{7}{9} - \frac{1}{6} \text{ in simplest form}$$

$$6. \quad 2 \frac{1}{5} \div 3 \frac{3}{10} \text{ in simplest form}$$

7. Nan needs $2 \frac{1}{2}$ cups of sugar for a recipe. How much will she need for $\frac{1}{2}$ of the recipe?

92. Name _____

$$1. \quad 8 \text{ to the zero power is } \underline{\hspace{2cm}}$$

$$2. \quad \text{Estimate. } 7.093 + 4.7$$

$$\begin{array}{r} 3. \quad 32.7 \\ +19.5 \\ \hline \end{array}$$

$$4. \quad \frac{3}{8} + \frac{5}{12} \text{ in simplest form}$$

$$5. \quad 3.47 \times 1000 = \underline{\hspace{2cm}}$$

$$6. \quad 6.582 \times 10^4 = \underline{\hspace{2cm}}$$

7. Mrs. Lopez buys a bat for \$12.95 and a baseball for \$4.15. How much change would she receive from \$20.00?

93. Name _____

1. $.18 \overline{) .614}$

2. $6 \overline{) 3}$

3. $.72 \times 1000 =$ _____

4. Greatest common factor for 14 and 35.

5. Least common multiple for 3, 7, 9

6. $4 \frac{1}{4} \div 2 \frac{1}{8}$ in simplest form.

7. Jack Jenner orders a load of black dirt. He uses $\frac{1}{2}$ in the front flower bed, $\frac{1}{3}$ in the back flower bed and $\frac{1}{6}$ in the garden. What fraction of the load is left?

95. Name _____

1. $91 \overline{) 25,570}$

2.
$$\begin{array}{r} 34,721 \\ -20,834 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 406 \\ \times 12 \\ \hline \end{array}$$

4. $\frac{6}{7} = \frac{\quad}{21}$

5. $10 \times 5.6 \times 0.05 =$ _____

6. $10^3 =$ _____

7. If it rained 0.125 cm per hour, how much rain fell in 0.4 hour?

94. Name _____

1. $70,042 \div 14 =$ _____

2. What is the prime factorization of 225

3. $3 \cdot 5 - 3 \cdot 2 =$ _____

4. $(6 - 3) \cdot (5 + 1) =$ _____

5. What is the greatest common factor of 4 and 15?

6. What is the least common multiple 6 and 8?

7. Sarah's first lap in the race was 2 minutes 29 seconds and her second lap was 2 minutes 33 seconds. What was her total time?

96. Name _____

1. $2^3 =$ _____

2. $3 \cdot 5^2 =$ _____

3. $\frac{2}{5} + \frac{1}{4} =$ _____

4. $5 \frac{4}{9} + 2 \frac{2}{6} =$ _____

5. $4 - 1 \frac{5}{8} =$ _____

6. $1 \div \frac{1}{5} =$ _____

7. Each character on a pica typewriter is $\frac{1}{10}$ inch wide. How long is a typed line containing 65 characters and spaces?

97. Name _____

1. $\$12.01 = \$6.00 =$ _____

2.
$$\begin{array}{r} 3725 \\ + 975 \\ \hline \end{array}$$

3. $71 \overline{)448}$

4.
$$\begin{array}{r} 1.75 \\ \times 15 \\ \hline \end{array}$$

5. $2 \div 3 \frac{6}{7} =$ _____

6. 3^3

7. Write the numeral for six hundred thousand.

98. Name _____

1. $0.043 \times 0.6 =$ _____

2. $5 \frac{1}{2} - 3 \frac{3}{4} =$ _____

3. $5 \frac{4}{5} \div \frac{2}{5} =$ _____

4. Change each fraction to a decimal. $\frac{9}{10}$

5. $9 \frac{7}{10} - 3 \frac{2}{5} =$ _____

6. $\frac{x}{6.5} = 0.24$ Solve for x.

7. How many jelly sandwiches can be made with 1.4 kg of jelly. Each sandwich is made with 35 g of jelly.

99. Name _____

1.
$$\begin{array}{r} 30,400 \\ -13,046 \\ \hline \end{array}$$

2. $96,075 - 10,748 =$ _____

3. $6 \overline{)24426}$

4. $19,074 \times 6 =$ _____

5. $8.62 + 9.13 + 4.87 =$ _____

6. $8 \frac{1}{4} \times 6 =$ _____

7. $\frac{3}{5}$ of the students in Josh's class are in chorus. If there are 25 people in his class, how many are in chorus?

100. Name _____

1.
$$\begin{array}{r} 0.13 \\ \times 0.14 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 6.025 \\ -0.450 \\ \hline \end{array}$$

3. $\frac{4}{15} - (\frac{8}{15} - \frac{7}{15}) =$ _____

4.
$$\begin{array}{r} \$6.82 \\ 4.11 \\ +9.99 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 9.25 \\ \times 8.8 \\ \hline \end{array}$$

6. Write 17 ten thousandths as a decimal.

7. How much faster is an antelope at 97 km/h than a kangaroo at 72.5 km/h?

101. Name _____

1.
$$\begin{array}{r} 3 \text{ hr } 45 \text{ min.} \\ + 4 \text{ hr } 30 \text{ min.} \\ \hline \end{array}$$

2.
$$\begin{array}{r} 12 \text{ hr } 24 \text{ min.} \\ - 7 \text{ hr } 50 \text{ min.} \\ \hline \end{array}$$

3.
$$\begin{array}{r} 1.27 \\ \times 3.14 \\ \hline \end{array}$$

4. $3.086 \text{ km} = \underline{\hspace{2cm}} \text{ cm}$

5. $43.8 \div 1000 = \underline{\hspace{2cm}}$

6.
$$\begin{array}{r} 2.9 \\ \times 0.6 \\ \hline \end{array}$$

7. During a vacation trip Akim and his family drove 1,106 miles in 14 hours. What was the average distance they traveled in an hour?

102. Name _____

1. $4 \frac{1}{3} \div \frac{1}{6} = \underline{\hspace{2cm}}$

2. $1 \frac{1}{4} \times 2 \frac{1}{2} \times 8 = \underline{\hspace{2cm}}$

3. $2 \frac{1}{2} \div 5 = \underline{\hspace{2cm}}$

4.
$$\begin{array}{r} 81.8 \\ \times 3.2 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 9 \\ \frac{6}{6} \\ + \frac{0}{6} \\ \hline \end{array}$$

6. $84 - 17.003$

7. Merrill gives $\frac{1}{2}$ of the fish he caught to Gina. He has 26 fish. How many fish did Gina receive?

103. Name _____

1. $4 \text{ m} = \underline{\hspace{2cm}} \text{ mm}$

2.
$$\begin{array}{r} 87.19 \\ - 28.37 \\ \hline \end{array}$$

3. $6 \overline{)28.8}$

4. $\frac{5}{8} \times 4 = \underline{\hspace{2cm}}$

5. $33 \times 120 = \underline{\hspace{2cm}}$

6. Estimate:
$$\begin{array}{r} 2,823 \\ + 7,901 \\ \hline \end{array}$$

7. Charles spent \$1.19 on notebook paper. He paid 7¢ tax. How much change did he receive from his \$10 bill?

104. Name _____

1. Write as a fraction:
ninety-eight to sixty-one

2. $1 \frac{1}{4} \text{ yard} = \underline{\hspace{2cm}} \text{ inches}$

3. $8.2 \overline{)3,214}$

4. What is the lowest common multiple for 3, 9?

5.
$$\begin{array}{r} 5 \\ \frac{7}{9} \\ + \frac{7}{9} \\ \hline \end{array}$$

6.
$$\begin{array}{r} 8 \frac{3}{5} \\ - 2 \frac{1}{4} \\ \hline \end{array}$$

7. George ran $\frac{1}{4}$ mile. Henry ran 400 yards. Who ran the greater distance?

106. Name _____

$$\begin{array}{r} 1. \quad 37.8 \\ +94.8 \\ \hline \end{array} \qquad \begin{array}{r} 2. \quad \$86.50 \\ - \quad 74.40 \\ \hline \end{array}$$

$$3. \quad 2.7 \overline{)8.37}$$

$$4. \quad \frac{5}{7} \div \frac{1}{4} = \underline{\hspace{2cm}}$$

$$5. \quad 12 \frac{1}{4} - 7 \frac{3}{4} = \underline{\hspace{2cm}}$$

$$6. \quad 20\% \text{ of } \underline{\hspace{2cm}} = 12$$

7. Solve:
You read $1 \frac{1}{4}$ hours each day.
Your friend reads $2 \frac{1}{8}$ times
as long. How many hours does
your friend read each day?

108. Name _____

$$1. \quad .5^3 = \underline{\hspace{2cm}}$$

$$2. \quad \frac{2}{3} \times (1 \frac{1}{2} + 2 \frac{1}{3}) = \underline{\hspace{2cm}} \text{ (Simplest Form)}$$

$$3. \quad 3 \frac{1}{3} \div 2 \frac{1}{2} = \underline{\hspace{2cm}} \text{ (Simplest Form)}$$

$$4. \quad (\frac{1}{2})^3 \times (\frac{2}{3})^3 = \underline{\hspace{2cm}} \text{ (Simplest Form)}$$

5. 100 is 10 times as great as what?

6. 25% of 820 is?

7. An oil company allows a $1/2\%$ reduction in the price of oil for bills paid within 30 days. If \$32 worth of oil is purchased, what is the savings if the bill is paid within 30 days?

107. Name _____

$$1. \quad \begin{array}{r} 9.12 \\ -3.85 \\ \hline \end{array} \qquad 2. \quad 2686 + 1067 = \underline{\hspace{2cm}}$$

$$3. \quad 50 \text{ is } \underline{\hspace{2cm}}\% \text{ of } 200$$

$$4. \quad \begin{array}{r} 7 \frac{3}{5} \\ +8 \frac{5}{6} \\ \hline \end{array} \qquad 5. \quad +12 + -5 = \underline{\hspace{2cm}}$$

$$6. \quad 88 \overline{)16,597}$$

7. You spend $2/3$ of an hour studying spelling words. Your friend spends twice as long studying spelling words. How many hours does your friend spend studying spelling words?

109. Name _____

1. What is 20% of 60?

2. $1/4\%$ of 400 is what?

3. 45% equals what fraction in simplest form?

$$4. \quad 7.256 - 1.089 = \underline{\hspace{2cm}}$$

$$5. \quad 25.8 \div .0003 = \underline{\hspace{2cm}}$$

$$6. \quad \begin{array}{r} 7 \frac{2}{3} \\ -3 \frac{4}{5} \\ \hline \end{array} \text{ (Simplest Form)}$$

7. What is the supplement of a 115° angle?

110. Name _____

1. $\frac{3}{4} \times \frac{5}{8} = \frac{\quad}{16}$ (Simplest Form)

2. $3.14 \bigcirc \frac{22}{7}$ ($>$, $<$ or $=$)

3. 200% of 35 = _____

4. 35 is what per cent of 200?

5. $\frac{120 \times 72}{144}$

6. $\frac{1}{4} \cdot \frac{1}{2} \cdot 0$, $\frac{1}{2} \cdot \frac{1}{4} =$ _____

7. Two 6-ounce cans of fruit juice sell for 49¢, and a 16-ounce can sells for 69¢. Which is the better buy?

111. Name _____

1. $\frac{20}{32} =$ _____ (Simplest Form Fraction)

2. $1\frac{3}{4} =$ _____ (Simplest Form Fraction)

3. $\frac{6}{10} =$ _____ (Give as a Decimal)

4. $\frac{2}{3} = \frac{m}{15}$ $m =$ _____

5. $\frac{125}{100} =$ _____ (Give as a Percent)

6. 34 is what percent of 40?

7. Membership in a club rose from 25 to 30. What is the ratio of the increase in membership to the original number of members in the club? (Simplest Form)

112. Name _____

1. $10^2 \times 360 =$ _____

2. $7(30 - 1) =$ _____

3. $.2 \times 2 \times 22 =$ _____

4. Give the percent for $\frac{1}{5}$.

5. 35% equals what fraction? (Simplest form)

6. $\begin{array}{r} 57,622 \\ -22,675 \\ \hline \end{array}$

7. A 40 foot tower casts a 30 foot shadow at noon. What is the ratio of the number of feet in the length of the shadow at noon to the number of feet in the height of the tower? (Simplest form)

113. Name _____

1. If $x = 12$, what is the value of $3x + 2$?

2. $\frac{3/4}{5/8} =$ _____ (Simplest form)

3. $\frac{3}{1\frac{1}{2}} =$ _____ (Simplest form)

4. $11^2 =$ _____ 5. $1^{10} =$ _____

6. $13 - 6 + 2 =$ _____

7. Sam bought a baseball glove for \$35.00 plus \$1.40 tax. The glove normally cost \$42.00. How much did he pay in all?

114. Name _____

1. What is the complement of a 35° angle?
2. Two angles that add up to 180° are what kind of angles?
3.
$$\begin{array}{r} 4.83 \\ +7.29 \\ \hline \end{array}$$
4.
$$\begin{array}{r} 11.6 \\ - 5.84 \\ \hline \end{array}$$
5. $5\frac{1}{8} \div 4\frac{1}{2}$ in simplest form.
6. What is the third angle of the triangle: 27° , 53° , _____
7. The bottom of a swimming pool used 30 cubic yards of concrete. The total cost was \$1650. How much was this per cubic yard?

116. Name _____

1.
$$\begin{array}{r} 38.487 \\ -18.597 \\ \hline \end{array}$$
2.
$$\begin{array}{r} 7.9 \\ \times 0.08 \\ \hline \end{array}$$
3. Add:
$$\begin{array}{r} \$2.01 \\ 10.28 \\ +16.61 \\ \hline \end{array}$$
4. $43.05 \div 41 =$ _____
5. $9\frac{1}{3} \div \frac{14}{15} =$ _____
6. 16 is _____% of 25.
7. It takes you $12\frac{5}{6}$ hours to paint a room. It takes a painter $7\frac{3}{4}$ hours. How many hours less does it take the painter to paint the room?

115. Name _____

1. What is the reciprocal of $1\frac{6}{7}$?
2. The amount of interest owed on a one year loan is \$60. If the loan rate is 6%, what is the principal (amount borrowed)?
3. $\sqrt[3]{125}$
4. $6283 + 7477 =$ _____
5. $5602 - 477 =$ _____
6. A 110° angle is classified as what kind of angle?
7. \$1092 shared equally by 9 people gives each person \$121 with how many dollars left over?

117. Name _____

1. $640 - 62.99 =$ _____
2. Add:
$$\begin{array}{r} \$10.65 \\ 9.50 \\ 15.35 \\ +12.44 \\ \hline \end{array}$$
3. $567.6 \div 44 =$ _____
4.
$$\begin{array}{r} 3.26 \\ \times 27 \\ \hline \end{array}$$
5. $14 \div 3\frac{1}{2} =$ _____
6. 51 is _____% of 68.
7. A spinner has 6 different spaces on it. Only one space contains a star. You spin the spinner. You want it to stop on the star. What is the probability that you will be successful?

118. Name _____

1.
$$\begin{array}{r} 47,381 \\ +24,909 \\ \hline \end{array}$$

2. $53,600 - 37,432 =$ _____

3. $89 \overline{)7135}$ (Use remainder)

4. $7/11 \times 2/3 =$ _____

5. $7 \frac{2}{3} - 1 \frac{16}{21} =$ _____

6. $+16 + -4 =$ _____

7. Solve the problem.
There are 96 pets in the store.
72 are birds. What percent are birds?

119. Name _____

1.
$$\begin{array}{r} 50.000 \\ -43.995 \\ \hline \end{array}$$

2. $\$125.75 + \$65.28 =$ _____

3. 300% of 18 = _____

4. $8 \frac{1}{3} \div 2 =$ _____

5.
$$\begin{array}{r} 329 \\ \times 89 \\ \hline \end{array}$$

6. $5 \overline{)1.370}$

7. Using the formula $V = L \times W \times H$, find the volume of a rectangular prism.
 $L = 10$ cm
 $W = 7$ cm
 $H = 9$ cm

120. Name _____

1. $\$419 - 150 =$ _____

2. 45 is _____% of 50.

3. $1 \frac{5}{12} \div 1 \frac{1}{8} =$ _____

4.
$$\begin{array}{r} \frac{2}{9} \\ + \frac{1}{3} \\ + \frac{1}{6} \\ \hline \end{array}$$

5.
$$\begin{array}{r} 15.3 \\ \times .082 \\ \hline \end{array}$$

6. $31 \overline{)297.6}$

7. If the sum of two angles of a triangle is 95° , what is the measurement of the third?

121. Name _____

1. $17 \overline{)68102}$

2. $0.64 + 0.27 =$ _____

3.
$$\begin{array}{r} \$1286.30 \\ - 857.00 \\ \hline \end{array}$$

4. $11 \overline{)8}$

5. $5 \frac{1}{2} \div \frac{3}{4} =$ _____

6. 8 is _____% of 16.

7. What is the temperature now?
Starts at -21°C
Falls 11°C

122. Name _____

1. $8 - 5\frac{3}{5} =$ _____
2. $3 + x = 15$; $x =$ _____
3. $x - 4.2 = 4.2$; $x =$ _____
4. What is the greatest common factor of 6 and 9?
5. What is the least common multiple of 6 and 9?
6. $63 \div 0.2 =$ _____
7. If you ran 200 meters in 26 seconds, how many meters per second did you run?

124. Name _____

1. $.8 + 7.01 + .89 =$ _____
2.
$$\begin{array}{r} 3004 \\ - 164 \\ \hline \end{array}$$
3. $10.5 \overline{)21.84}$
4. $7902 \times .236 =$ _____
5. $11/20 - 1/5 =$ _____
6. 39 is _____% of 130.
7. 144 of 960 passengers on a 12-day cruise is _____% of the passengers.

123. Name _____

1. 1 pint = _____ cups
2. 1 lb. = _____ oz.
3.
$$\begin{array}{r} 5.05 \\ \times 3.14 \\ \hline \end{array}$$
4. $5.3 + 4 =$ _____
5. $1 - 1/2 =$ _____
6. $4 - 1\frac{5}{8} =$ _____
7. Stan's recipe for bread calls for $6\frac{1}{3}$ cups of flour. He has 8 cups on hand. How much will he have left after baking?

125. Name _____

1. Add:
$$\begin{array}{r} \$40.01 \\ .88 \\ + .19 \\ \hline \end{array}$$
2. $10,795 - 1,600 =$ _____
3. $7.01 \overline{)0.2804}$
4. $1693 \times 3.06 =$ _____
5. $\frac{2}{3} + \frac{5}{8} =$ _____
6. _____% of 25 = 12
7. There are 128 students in Ms. Johnson's English classes. Each student has agreed to contribute to the class library 3 books that he or she has already read. How many books will be contributed?

126. Name _____

1. $\begin{array}{r} 8 \text{ ft.} \\ - \quad 9 \text{ in.} \end{array}$ 2. $\begin{array}{r} 4 \text{ T} \quad 100 \text{ lbs.} \\ + 6 \text{ T} \quad 1900 \text{ lbs.} \end{array}$

3. $7.35 \div 2.1 =$ _____

4. $40,662 \times 109 =$ _____

5. $5/6 + 3/4 =$ _____

6. 117 is _____% of 180?

7. There are 475 students studying languages at Jones High School. 60% of the students are studying Spanish. How many students are studying Spanish?

128. Name _____

1. Change $88\frac{8}{9}\%$ to a fraction.

2. _____% of 18 is 3.6.

3. $\frac{M}{3.6} = \frac{1.2}{1.8}$

4. $\begin{array}{r} 7.005 \\ \times 2.13 \\ \hline \end{array}$

5. $\begin{array}{r} 70,083 \\ - 52,094 \\ \hline \end{array}$

6. Add: $\begin{array}{r} 205.14 \\ 33.42 \\ \hline 1.108 \end{array}$

7. The temperature at dawn was -20°C . By noon, the temperature was 15° higher. What was the temperature at noon?

127. Name _____

1. What number is 35% of 70?

2. $4 - 1/10 =$ _____

3. 94 is 4.7% of what number?

4. Add: $\begin{array}{r} 10 \text{ ft.} \\ 4 \text{ ft. } 6 \text{ in.} \end{array}$

5. 7 ft. = _____ in.

6. $1/2 + 1/12 =$ _____

7. The regular price for a pair of slippers is \$32. Dave buys them on sale for 20% off. He has to pay sales tax of 5%. What is the final price for the shoes?

129. Name _____

1. $2\frac{1}{2} \div 7\frac{1}{2} =$ _____

2. Give the missing number. $\frac{5}{8} = \frac{\quad}{40}$

3. $17 \overline{)68,102}$

4. _____ is 75% of 200.

5. $\begin{array}{r} 900,000 \\ - 507,088 \\ \hline \end{array}$

6. $10 + 1.581 + 85.42 =$ _____

7. A recipe for honey-nut bread uses $1/2$ cup of honey. How much honey is used to make $2\frac{1}{2}$ times this recipe?

130. Name _____

1.
$$\begin{array}{r} +6 + -2 \\ -4 \end{array}$$

2.
$$\begin{array}{r} 34 \\ \times 27 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 7164 \\ + 237 \\ \hline \end{array}$$

4. $9\frac{1}{2} \div 2\frac{1}{2} =$ _____

5. What percent is seventy-five out of one hundred?

6. $\$200 \times 1.25 =$ _____

7. Of every 20 scientists, 1 is left-handed. Fifteen percent of all artists are left-handed. Which group has more left-handed people?

132. Name _____

1. Find the area of a triangle with two sides that meet perpendicularly and measure 6 cm and 4 cm.

2. Find the area of a rectangle with a width of 8 ft and length of 12 ft.

3. Find the better buy.
3 lb for \$8
or
5 lb for \$10

4. $\frac{28}{16} = \frac{N}{4}$

5. Change $\frac{7}{25}$ to a percent.

6. 6% of 300 = _____

7. If a penny is tossed 100 times, about how many times should the coin land heads up?

131. Name _____

1. Find the divisor.
$$\begin{array}{r} 0.792 \\)8.6328 \end{array}$$

2. $\frac{N}{30} = \frac{14}{20}$

3. $14 \div 2\frac{1}{3} =$ _____

4. $\frac{2}{3} \times 21 \times 1\frac{7}{8} =$ _____

5.
$$\begin{array}{r} 16\frac{3}{5} \\ +11\frac{1}{2} \\ \hline \end{array}$$

6. $27 \overline{)17.82}$

7. It takes one hour to make a shirt. It takes 3 hours to make a jacket. How many shirts can be made for every jacket?

133. Name _____

1. Find the volume: $l \times w \times h$
 $l = 18.4 \text{ mm}$
 $w = 10.8 \text{ mm}$
 $h = 6.5 \text{ mm}$
 $V =$ _____

2.
$$\begin{array}{r} 9.005 \\ -2.139 \\ \hline \end{array}$$

3. $\frac{4}{5} \times \frac{2}{3} =$ _____

4. Solve. $C = 110$
 $D = 7\text{cm}$

5. Solve.
 $L = 7 \text{ cm}$
 $W = 4 \text{ cm}$
 $H = 3 \text{ cm}$
 $V =$ _____

6. $\frac{2}{9} \times 18$

7. Write and solve this problem.
How much higher is a temperature of 4° below zero (-4) than a temperature of 14° below zero (-14)?

134. Name _____

1. $1/2$ lb. = _____ oz.

2. 1 qt. = _____ pt.

3. $4 \text{ ft. } 5 \text{ in.}$
 $\times \quad 3$

4. $4/5 =$ _____ %

5. $3 \frac{3}{4} \div 1 \frac{9}{16} =$ _____

6. 83.6
 $\times 4.1$

7. How much interest will Bill receive from a deposit of \$300 at 9% interest rate for 1 year?

136. Name _____

1. $3.26 \div 1000 =$ _____

2. $45 \div 5 = N$

3. $N \times 5 = 35$

4. $(2 \times 9) - (27 \div 3)$

5. $-4 + {}^+8 =$

6. $56 \overline{)0}$

7. Rory washed windows 9 hours to make money for a two-day trip to the amusement park. He received \$7 per hour. How much did he earn?

135. Name _____

1. 6 ft. = _____ in.

2. 21 ft. = _____ yd.

3. How many cups are in six 12 oz. cans of cranberry juice?

4. $11/50 =$ _____ %

5. $1 \frac{2}{3} \div 3 \frac{3}{4} =$ _____

6. $0.044 \overline{)35.2}$

7. What is the product when 9 is multiplied by $4 \frac{1}{3}$?

137. Name _____

1. 40% of 40 = _____

2. $1/8 =$ _____ %

3. $1.96 =$ _____ %

4. $890 \div 100 =$ _____

5. Add: 13.5
 0.6
 $\underline{9.2}$

6. $\$128.92 - \29.87

7. Two pounds of apples cost 48¢. What is the cost of 3 pounds of apples?

138. Name _____

1. $1.2 \times 16 =$ _____

2.
$$\begin{array}{r} 6.472 \\ \times 32 \\ \hline \end{array}$$

3. $5.50 + 50 =$ _____

4. $\frac{2}{25} =$ _____ %

5. $7 \times -8 =$ _____

6. $3 - -1 =$ _____

7. Jerry needs to save \$105 for a new gun. So far, he has saved \$15.50. How much more does he need to save?

139. Name _____

1. $(\frac{1}{2} - \frac{1}{4}) \times \frac{4}{5} =$ _____

2. $(\frac{2}{3} \times \frac{1}{8}) + \frac{5}{6} =$ _____

3. $\frac{3}{4} \times (\frac{2}{3} + \frac{2}{3}) =$ _____

4. $(5\frac{1}{2} + \frac{1}{3}) \times \frac{6}{7} =$ _____

5. $8 - (1\frac{1}{2} \times 3\frac{2}{3}) =$ _____

6. $(10 \times 3\frac{1}{6}) + 8\frac{1}{3} =$ _____

7. John types 583 words in 10 minutes. To the nearest word, how many words is this per minute?

140. Name _____

1. $7000 - 4389 =$ _____

2. What is 1 % as a decimal?

3. $62 + 6.2 =$ _____

4. $4x = 76$ $x =$ _____

5. $\frac{x}{0.3} = 6$ $x =$ _____

6. Write $\frac{1}{3}$ as a decimal.

7. Twenty-five people can ride in an elevator at once. How many trips will be necessary to take 145 people to the top?

Answers - Seventh Grade

Page 1

1. 16.589
2. 35.555
3. 2006
4. 54,230
5. $1\frac{1}{3}$
6. $\frac{5}{12}$
7. 6 apples

Page 2

1. 173.142
2. 12.360
3. 80
4. 18,228
5. 19,343
6. $1\frac{3}{10}$
7. 180 miles

Page 3

1. 11.445
2. \$107.40
3. 8
4. 1,269,268
5. 10
6. 2000
7. 10

Page 4

1. 20.248
2. $X = 61$
3. $t = 45$
4. 208
5. 22.38
6. 10.5
7. 480 km

Page 5

1. \$1268
2. \$ 17.37
3. 319,314
4. $1\frac{5}{12}$
5. 976 r 11
6. 80
7. 68 mm

Page 6

1. 32.05
2. 17
3. $2\frac{3}{7}$
4. 8 r 81
5. 818,210
6. 10,020
7. 500 mm

Page 7

1. 722
2. \$48.52
3. 156,663
4. 124
5. $1\frac{7}{24}$
6. $\frac{1}{2}$
7. $\frac{4}{5}$ cups

Page 8

1. 40.8
2. 10
3. 2
4. 9.24
5. 9.52
6. 575
7. 18

Page 9

1. 791
2. \$48.23
3. 0.09
4. \$392.94
5. .0273
6. .15
7. \$3.01

Page 10

1. 0.95
2. 492.7
3. .20
4. 3.125
5. 16
6. 1634
7. 10

Page 11

1. 1114
2. 24.42
3. .03053
4. 5.207
5. 18
6. 2
7. 75¢

Page 12

1. 5442
2. 4.434
3. .068
4. .063
5. 10.398
6. 2.046
7. 24

Page 13

1. 80.732
2. 1.06
3. 0.9968
4. 829
5. $1\frac{1}{16}$
6. 18.373
7. \$4.86

Page 14

1. 8.07
2. \$61.65
3. 3.25
4. 56
5. 25,600
6. .76
7. 27

Page 15

1. 34.59
2. 6180
3. .87
4. 132.66
5. 11.1
6. 1.193
7. 3

Page 16

1. 53934
2. 170.5
3. .909
4. .09804
5. \$4.00
6. 2
7. 0.8 meters

Page 17

1. 323,422
2. \$9.10
3. \$9.40
4. .06
5. $2\frac{2}{3}$
6. 50%
7. 15

Page 18

1. 16,099
2. 50.22
3. .35
4. 825
5. 17,009,000,245,000
6. 200,000
7. \$260.00

Page 19

1. 1679
2. 27.333
3. 6.2
4. 00375
5. $4\frac{1}{2}$
6. 72
7. \$6.00

Page 20

1. 34
2. \$5.06
3. 144
4. .00364
5. 46,800
6. $1\frac{3}{4}$
7. 6

Page 21

1. 3.07
2. 35,340
3. 7.2
4. 6,349.26
5. $1\frac{3}{4}$
6. 6
7. \$1.35

Page 22

1. 6093
2. 1411
3. 42.9
4. 3.5028
5. $7\frac{3}{4}$
6. $3\frac{1}{2}$
7. 18

Page 23

1. 30.509
2. \$1.47
3. 6.35
4. 1797.78
5. 557,865
6. 605.14
7. 2001

Answers - Seventh Grade (continued)

Page 24

1. 9.296
2. 14,366
3. 708
4. 47.36
5. 22
6. 105
7. \$46.50

Page 25

1. 13
2. \$474
3. .78
4. 160.37
5. 1,012,372
6. 7989
7. 79 people

Page 26

1. \$11,953
2. 544
3. 284 r 23
4. 478.8
5. 31,785
6. 17,479
7. 10,000

Page 27

1. 546.25
2. 1569
3. 629 r 29
4. 15.75
5. 6,000,000
6. 2,530,000
7. A

Page 28

1. 219.0
2. \$5.02
3. 22
4. 10.2
5. 90 r 6
6. 46,790
7. C

Page 29

1. 0.098
2. 65.25
3. 25 r 14
4. 2934
5. $\frac{7}{8}$
6. $7\frac{4}{21}$
7. Ten thousands

Page 30

1. 12386
2. 3010
3. 5,032
4. 1.2
5. 40
6. 21
7. 29,000,000

Page 31

1. One thousand four hundre
2. <
3. 12,090
4. 40907
5. 34290
6. 217
7. \$70

Page 32

1. 4,500,000
2. 17,000
3. 3501, 3500, 503, 305
4. 56
5. \$1217
6. 65,961
7. 990

Page 33

1. 11,970
2. 3.2065
3. 1 lb. + 4 oz.
4. 13
5. 89
6. 21660
7. $\frac{3}{8}$ cup

Page 34

1. 1000 r 6
2. 1
3. 48,100
4. 406
5. 7^2
6. 658,260
7. 80

Page 35

1. 18,000
2. 78,000
3. 10,000
4. 2810
5. 34618
6. 4980
7. 12 gallons

Page 36

1. 5.557
2. \$16.84
3. 5 r 15
4. 2
5. 2500
6. $W = 12$
7. 125%

Answers - Seventh Grade (continued)

Page 37

1. 19 r 17
2. 1568
3. 39,848
4. 0
5. $N = 2$
6. 31.5
7. \$3.10

Page 38

1. 6840
2. 26
3. 28,777
4. $3\frac{1}{3}$
5. 6.9
6. 36.3
7. 55 hrs.

Page 39

1. 281.058
2. 109
3. $C = 1000$
4. $t = 2.7$
5. .005
6. 5.375
7. 7 hours

Page 40

1. 1619
2. 14221
3. 3 r 31
4. $\frac{7}{8}$
5. 163
6. 0.333
7. 136

Page 41

1. 5.579
2. 10,020
3. 419 r 33
4. $\frac{5}{9}$
5. $\frac{4}{5}$
6. $\frac{4}{13}$
7. 13

Page 42

1. \$106,145
2. \$61.19
3. .005750
4. 4.66
5. $\frac{1}{14}$
6. $\frac{7}{8}$
7. 14

Page 43

1. 535
2. 1.149
3. .615
4. 5.21
5. $\frac{9}{10}$
6. $\frac{3}{8}$
7. 30

Page 44

1. 7
2. 1
3. 85
4. T
5. 17
6. 1,210,000
7. 8

Page 45

1. 19
2. 9129
3. 0
4. 12.83
5. 1.11
6. .000525
7. 12 boys

Page 46

1. 100,000,000
2. 99,000
3. 6825
4. 8107
5. 45
6. 125,000,000
7. 30.48 cm

Page 47

1. 1728
2. 9999
3. 84
4. 50
5. 1125
6. 100
7. \$8.88

Page 48

1. 24,414
2. .076
3. 1324.6
4. 12.4
5. $1\frac{4}{7}$
6. $\frac{1}{4}$
7. $\frac{4}{15}$

Page 49

1. 60
2. 4000
3. 11.964
4. 60
5. 56
6. 28
7. \$.16

Page 50

1. \$20.00
2. 7.79
3. 23.424
4. $\frac{1}{19}$
5. $\frac{27}{4}$
6. .4
7. \$76.00

Page 51

1. .8
2. 1.24
3. \$8.25
4. 8620
5. .0013
6. \$104
7. 8.62×10^3

Page 52

1. \$21.85
2. 64,096
3. 2
4. $\frac{1}{2}$
5. 156
6. 35,000
7. 1024.6

Page 53

1. .4
2. 3.05
3. $\frac{1}{2}$
4. 6.083
5. 76.3
6. 4.86
7. 490 pins

Page 54

1. 1430
2. 72
3. 4
4. 1694
5. 11,000
6. .1
7. 2, 3, 5, 7,
11, 13, 17, 19

Page 55

1. 10,000
2. 1
3. 1024
4. 150
5. 378
6. 76
7. 3600 seconds

Page 56

1. 576
2. $\frac{1}{5}$
3. $\frac{4}{19}$
4. 127
5. $1\frac{2}{3}$
6. $\frac{1}{12}$
7. $\frac{5}{12}$

Page 57

1. 347
2. 2902
3. 17
4. 218
5. 9
6. 60
7. $2\frac{11}{12}$ feet

Page 58

1. 8400
2. 8,000,000
3. 20,141
4. 4515
5. 27,588
6. 8105
7. 2.77 cm

Page 59

1. .008
2. 10,000
3. 154
4. $1\frac{7}{8}$
5. $\frac{27}{64}$
6. 2
7. 38 ft.

Answers - Seventh Grade (continued)

Page 60

1. 18,807
2. 1517.286
3. 301.38
4. $1\frac{1}{4}$
5. $7\frac{1}{14}$
6. 103
7. 1320 ft./min.

Page 61

1. 40
2. 72
3. 1
4. $\frac{1}{3}$
5. 1.244
6. $\frac{9}{16}$
7. \$.50

Page 62

1. 5667
2. 350,832
3. 220 r 2
4. $1\frac{5}{12}$
5. $\frac{5}{9}$
6. 16.65
7. 4:5 or $\frac{4}{5}$

Page 63

1. .000027
2. 256
3. $86\frac{5}{12}$
4. 200
5. 32
6. 1, 4, 9, 16, 25, 36, 49, 64, 81, 100
7. Composite

Page 64

1. 28
2. 144
3. 12,189
4. 51,486
5. $1\frac{1}{3}$
6. $\frac{5}{12}$
7. $\frac{2}{3}$

Page 65

1. 100,000,000
2. 21,600
3. 1000
4. 8991
5. 514
6. 182
7. 9881

Page 66

1. .15
2. 282
3. 6 r 81
4. 355
5. 25
6. 7
7. $900,000 + 6,000 + 100 + 7$

Page 67

1. 700
2. 3600
3. 503,600
4. 584
5. 3131
6. 85,671
7. \$568

Page 68

1. 1.2
2. 14.58
3. 6200
4. \$35.28
5. 1.6
6. 41,360
7. More than 700

Page 69

1. 4 qt.
2. 2000 lb.
3. 5 yd. 2 ft
4. 40%
5. 4.07
6. 1207
7. 80%

Page 70

1. 6.902
2. 3 X 17
3. 4
4. $1\frac{2}{3}$
5. $1\frac{4}{5}$
6. $1\frac{59}{90}$
7. $\frac{1}{3}$

Page 71

1. 24
2. 29
3. 207 r 3
4. 9910
5. 19,343
6. 15,244
7. 4270 km

Page 72

1. 57 r 24
2. 60
3. 35
4. .53
5. 605.14
6. 13,736
7. About \$6.00

Answers - Seventh Grade (continued)

Page 73

- 102,741
- 30,531
- 201
- 7728
- 100
- 52
- \$1200

Page 74

- 0.1
- 6
- 6.01
- 130.472
- 1.009
- 12.011
- \$1817.12

Page 75

- \$441.00
- 3794
- 52 $\frac{7}{8}$
- 2044
- 25 $\frac{2}{3}$
- 430
- $\frac{3}{5}$

Page 76

- 25
- 82411
- $\frac{4}{45}$
- 13 r 21
- 42 $\frac{2}{5}$
- N = 48
- \$.96

Page 77

- 23
- 4 $\frac{13}{30}$
- 7 $\frac{1}{4}$
- 380
- p = 0
- \$2578.72
- 27

Page 78

- $\frac{2}{3}$
- 5
- $\frac{3}{4}$
- 6 $\frac{5}{8}$
- 7.7
- 2849
- \$30.00

Page 79

- .25
- 1.0
- 7.5
- 74.784
- 1.7
- 1.47
- \$3.40

Page 80

- .2 or .20
- 4.85
- 44
- $\frac{8}{21}$
- $\frac{3}{4}$
- $\frac{9}{16}$
- 4 $\frac{1}{2}$ cups

Page 81

- 5824
- $\frac{3}{4}$
- $\frac{9}{20}$
- $\frac{2}{5}$
- 3 $\frac{2}{5}$
- 7 $\frac{13}{18}$
- 7 $\frac{1}{2}$

Page 82

- 4070
- 9000.009
- 6^4
- 2800
- 2.47
- 30
- 2

Page 83

- 5
- 1
- 1 $\frac{2}{9}$
- =
- >
- 6.2
- No

Page 84

- 1
- 21
- 3₂
- 5² x 7
- \$160.42
- 12.666
- True

Page 85

- 64
- .043
- 1.4
- 4.6
- 93
- 0
- Distributive

Page 86

- 24
- 2
- 3 x 3 x 5 or 3² x 5
- 24
- 600
- 10,989
- 1000

Page 87

- 7 $\frac{7}{12}$
- 10
- 5 $\frac{13}{15}$
- $\frac{1}{8}$
- 20
- $\frac{3}{22}$
- 7

Page 88

- 2 $\frac{7}{8}$
- $\frac{6}{7}$
- 19 $\frac{5}{6}$
- 436
- 392 r 11
- 1588.21
- 30.03

Page 89

- 133.272
- 2
- 134.67
- 27.2
- 12.77
- $\frac{13}{24}$
- 630.6 miles

Page 90

- 2 $\frac{1}{8}$
- 4 $\frac{1}{2}$
- 324 r 73
- 5
- 1 $\frac{1}{8}$
- 15
- \$32.02

Page 91

- 98
- 36
- 3000
- 13 15
- $\frac{11}{18}$
- $\frac{2}{3}$
- 1 $\frac{1}{4}$

Page 92

- 1
- 12
- 52.2
- $\frac{19}{24}$
- 3470
- 65,820
- \$2.90

Page 93

- 34
- .5
- 720
- 7
- 63
- 2
- None

Page 94

- 5003₂
- 5² 3²
- 9
- 18
- 1
- 24
- 5 min. 02 seconds

Page 95

- 280 r 90
- 13,887
- 4872
- $\square = 18$
- 2.8
- 1000
- 0.05 cm

Answers - Seventh Grade (continued)

Page 96

1. 8
2. 75
3. $13/20$
4. $7\frac{7}{9}$
5. $2\frac{3}{8}$
6. 5
7. $6\frac{1}{2}$ in.

Page 97

1. \$6.01
2. 4700
3. 6 r 22
4. 26.25
5. $14/27$
6. 27
7. 600,000

Page 98

1. 0.0258
2. $4\frac{3}{4}$
3. $14\frac{1}{2}$
4. $0.\overline{91}$
5. $6\frac{3}{10}$
6. 1.56
7. 40 sandwiches

Page 99

1. 17,354
2. 85,327
3. 4071
4. 114,444
5. 22.62
6. $49\frac{1}{2}$
7. 15

Page 100

1. 0.0182
2. 5.575
3. $1/5$
4. \$20.92
5. 81.4
6. 0.0017
7. 24.5 km/h

Page 101

1. 8 hr. 15 min.
2. 4 hr. 34 min.
3. 3.9878
4. 3000 m; 8600 cm
5. 0.0438
6. 1.74
7. 79 miles

Page 102

1. 26
2. 25
3. $1/2$
4. 261.76
5. $3/2$ or $1\frac{1}{2}$
6. 66.997
7. 13

Page 103

1. 4000 m
2. 58.82
3. 4.8
4. $2\frac{1}{2}$
5. 3960
6. 11,000
7. \$8.74

Page 104

1. 98/61
2. 45 inches
3. 391.95
4. 9
5. $1\frac{1}{3}$
6. $6\frac{7}{20}$
7. George

Answers - Seventh Grade (continued)

Page 106

1. 132.6
2. \$12.10
3. 3.1
4. $2\frac{6}{7}$
5. $4\frac{1}{2}$
6. 60
7. $2\frac{21}{32}$ hours

Page 107

1. 5.27
2. 3753
3. 25%
4. $16\frac{13}{30}$
5. 7
6. $188\frac{53}{88}$
7. $1\frac{1}{3}$ hours

Page 108

1. .125
2. $2\frac{5}{9}$
3. $1\frac{1}{3}$
4. $\frac{1}{27}$
5. 10
6. 205
7. \$.16

Page 109

1. 12
2. 1
3. $\frac{9}{20}$
4. 6.167
5. 86,000
6. $3\frac{13}{15}$
7. 65⁰

Page 110

1. $1\frac{1}{14}$
2. <
3. 70
4. 17.5% or $17\frac{1}{2}\%$
5. 60
6. 0
7. 2 small cans

Page 111

1. $\frac{5}{8}$
2. $\frac{7}{4}$
3. .6
4. 10
5. 125%
6. 85%
7. $\frac{1}{5}$

Page 112

1. 36,000
2. 203
3. 8.8
4. 20%
5. $\frac{7}{20}$
6. 34,947
7. 3:4 or $\frac{3}{4}$

Page 113

1. 38
2. $1\frac{1}{5}$
3. 2
4. 121
5. 1
6. 9
7. \$36.40

Page 114

1. 55⁰
2. supplementary
3. 12.12
4. 5.76
5. $1\frac{5}{36}$
6. 100⁰
7. \$55

Page 115

1. $\frac{7}{13}$
2. \$1000
3. 5
4. 13,760
5. 5125
6. obtuse
7. \$3

Page 116

1. 19.890
2. .632
3. \$28.90
4. 1.05
5. 10
6. 64
7. $5\frac{1}{12}$ hours

Page 117

1. 577.91
2. \$47.94
3. 12.9
4. 88.02
5. 4
6. 75%
7. $\frac{1}{6}$

Page 118

1. 72,290
2. 16,168
3. 80 r 15
4. $\frac{14}{33}$
5. $5\frac{19}{21}$
6. 12
7. 75%

Page 119

1. 6.005
2. \$191.03
3. 54
4. $4\frac{1}{6}$
5. 29,281
6. .274
7. 630 cubic cm

Page 120

1. \$269
2. 90%
3. $1\frac{7}{27}$
4. $\frac{13}{18}$
5. 1.2546
6. 9.6
7. 85⁰

Page 121

1. 4006
2. 0.91
3. \$429.30
4. .72
5. $7\frac{1}{3}$
6. 50%
7. 32 c

Page 122

1. $2\frac{2}{5}$
2. $x = 12$
3. $x = 8.4$
4. 3
5. 18
6. 315
7. 7.69 m

Page 123

1. 2
2. 16
3. 15.8570
4. 9.3
5. $\frac{1}{2}$
6. $2\frac{3}{8}$
7. $1\frac{2}{3}$ cup

Page 124

1. 8.7
2. 2840
3. 2.08
4. 1864.872
5. $\frac{7}{20}$
6. 30%
7. 15%

Page 125

1. \$41.08
2. 9195
3. .04
4. 5180.58
5. $1\frac{7}{24}$
6. 48%
7. 384

Page 126

1. 7 feet 3 inches
2. 11 T
3. 3.5
4. 4432158
5. $1\frac{7}{12}$
6. 65%
7. 285

Answers - 7th Grade (continued)

Page 127

1. 24.5
2. $3\frac{9}{10}$
3. 2000
4. 14 ft. 6 in.
5. 84 in
6. $\frac{7}{12}$
7. 26.88

Page 128

1. $\frac{8}{9}$
2. 20%
3. 2.4
4. 14.92065
5. 17,989
6. 239.668
7. -5^0 C

Page 129

1. $\frac{1}{3}$
2. 25
3. 4006
4. 150
5. 392,912
6. 97.001
7. $1\frac{1}{4}$ cups

Page 130

1. -1
2. 918
3. 7401
4. $3\frac{4}{5}$
5. 75%
6. \$250
7. artists

Page 131

1. 10.9
2. 21
3. 6
4. $26\frac{1}{4}$
5. $28\frac{1}{10}$
6. \$0.66
7. 3 shirts

Page 132

1. 12 cm^2
2. 96 sq ft
3. 5 lb for \$10
4. 7
5. 28%
6. 18
7. 50 times

Page 133

1. 1291.68 m³
2. 6.866
3. $\frac{8}{15}$
4. 21.98 cm^3
5. 84 cm³
6. 4
7. 10^0

Page 134

1. 8 oz.
2. 2 pt.
3. 13 ft. 3 in.
4. 80%
5. $2\frac{2}{5}$
6. 342.76
7. \$27

Page 135

1. 72 in.
2. 7 yd.
3. 9 C
4. 22%
5. $\frac{4}{9}$
6. 800
7. 39

Page 136

1. 0.00326
2. $N = 9$
3. $N = 7$
4. $\frac{9}{4}$
5. 4
6. 0
7. \$63

Page 137

1. 16
2. $12\frac{1}{2}\%$ or 12.5%
3. 196%
4. 8.9
5. 23.3
6. \$99.05
7. 72¢

Page 138

1. 19.2
2. 207.104
3. .11
4. 8%
5. 56
6. 4
7. \$89.50

Page 139

1. $\frac{1}{5}$
2. $\frac{11}{12}$
3. 1
4. 5
5. $2\frac{1}{2}$
6. 40
7. 58 words per minute

Page 140

1. 2611
2. .01
3. 68.2
4. $x = 19$
5. $x = 1.8$
6. $\frac{3}{3}$
7. 6 trips

VI. Teacher Resource Websites

Helpful sites:

E2T2 Teacher Resource site:

<http://www.aeal1.k12.ia.us/E2T2/teachcorner.html>

Meaningful Instructional Tasks

Mental Math – Daily Mental Math problems (Grades 1-8)

Daily Math Reviews (Grades K-7)

Mental Math Grade 7

<http://www.aeal1.k12.ia.us/E2T2/pdf/MM%207.pdf>

Daily Math Reviews (Grades 6-8)

<http://www.aeal1.k12.ia.us/E2T2/dmr.html>

Grades 7-12

<http://www.classzone.com/cz/index.htm>

Practice, Practice, Practice – online practice problems, Problem of the week

Help with Math - Extra Practice, Power Points, Graphing Calculator keystrokes

Games and Activities – vocabulary flip cards, vocabulary crosswords

Quick Reference - Formulas, Web Projects, Parents as Partners

Assessment – interactive session quizzes, chapter tests